CERTIFICATE IN AI AGENT DEVELOPMENT AND CONTEXT ENGINEERING:

From MVP to Production: Building Autonomous AI Solutions for Business

Professional Development Program

Developed for:

SIQ - Slovenian Institute of Quality and Metrology

Course Professor:

Dr. Tali Režun

Vice Dean and Professor
COTRUGLI Business School

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Executive Summary

This comprehensive professional development program represents a transformative journey through the rapidly evolving landscape of artificial intelligence, with particular emphasis on AI agents and their practical application in entrepreneurial and business contexts. The curriculum bridges the critical gap between theoretical AI understanding and practical implementation, enabling participants to build, deploy, and utilize AI-powered solutions that deliver tangible competitive advantages.

Unlike traditional AI courses that focus primarily on theory or require extensive programming backgrounds, this program employs a learn-by-doing methodology that enables participants from diverse professional backgrounds to create functional minimum viable products using cutting-edge AI agents and coding tools. The curriculum is structured around five intensive modules that progressively build competency from foundational understanding through production deployment.

The program aligns with the latest industry developments and incorporates insights from leading institutions, while maintaining a practical focus on immediate business application. Participants will master context engineering, the highest-leverage skill in modern AI implementation, and develop the capability to orchestrate AI agents for complex, multi-step business challenges.

Upon successful completion of this program, participants will hold the professional designation of **Certified AI Agent Practitioner**. This designation reflects the practical, implementation-focused nature of the curriculum while acknowledging the sophisticated technical capabilities participants will demonstrate.

Explainer: The term "Practitioner" was deliberately selected over alternatives such as "Developer," "Engineer," or "Specialist" for several strategic reasons. Unlike "Developer" or "Engineer," which carry strong connotations of traditional software engineering backgrounds and manual coding proficiency, "Practitioner" accurately represents professionals who implement and deploy AI solutions using contemporary tools and methodologies. The designation acknowledges that participants are building production systems and making sophisticated technical decisions about architecture, tool selection, and deployment strategies, but doing so through the lens of business application rather than computer science research.

Course Overview

Program Description

This is not a course about AI theory in isolation. It is a practical, intensive program focused on building, deploying, and utilizing AI-powered tools to gain competitive advantage, accelerate innovation, and develop minimum viable products with unprecedented speed and efficiency. Participants will transition from understanding fundamental AI concepts to actively deploying AI coding agents, building real applications, and mastering context engineering, the critical discipline that separates effective AI utilization from mere experimentation.

The curriculum reflects the evolution from passive AI assistants toward autonomous, capable digital workers. Through systematic instruction and hands-on implementation, participants will develop both technical proficiency and strategic understanding necessary to lead AI integration within their organizations. The program emphasizes the fundamental distinction between Large Language Models and AI agents, a critical concept that enables participants to architect solutions appropriate for their specific business challenges.

Due to complexity of the program it is recommended to extend this program into two weeks, three days per week.

Pedagogical Approach

The program employs contemporary learning methodologies aligned with adult learning principles and professional development best practices:

- Learn-by-Doing Methodology: Every concept is immediately applied through hands-on exercises, ensuring practical competency development rather than passive knowledge acquisition.
- Progressive Complexity: The curriculum builds systematically from foundational understanding to advanced implementation, allowing participants to develop confidence before tackling complex challenges.
- Real-World Application: Participants work on actual minimum viable products and business problems relevant to their professional contexts, ensuring immediate practical value.
- Collaborative Learning: Peer feedback, group problem-solving, and shared discovery enhance learning outcomes and create professional networking opportunities.
- Iterative Development: Participants experience the complete cycle of building, testing, and refining AI-powered solutions, mirroring real-world development processes.
- Structured Reflection: After-action reviews and critical analysis of AI tool effectiveness ensure deep learning and transferable skills development.

Learning Outcomes

Upon successful completion of this program, participants will be able to:

- Understand and Explain AI Architecture: Articulate the fundamental architecture, capabilities, and limitations of Large Language Models and AI agents, enabling informed decision-making about technology selection and implementation strategies.
- Evaluate and Select AI Solutions: Differentiate between various AI tools, models, and deployment approaches, selecting appropriate solutions for specific business needs based on technical requirements and organizational constraints.
- Master Context Engineering: Design and implement comprehensive context engineering strategies that maximize AI agent effectiveness, the highest-leverage skill in contemporary AI implementation.
- Build AI-Powered Applications: Demonstrate proficiency in building and deploying AI-powered applications using no-code and low-code tools, enabling rapid prototyping and production deployment.
- Create Functional MVPs: Develop complete minimum viable products leveraging AI coding agents and modern development platforms, demonstrating end-to-end product development capability.
- Assess Agent Maturity: Evaluate AI agent maturity levels and assess their readiness for specific business applications, enabling strategic deployment decisions.
- Apply Ethical AI Principles: Integrate ethical considerations and sustainability principles into AI implementation, ensuring responsible deployment aligned with organizational values.
- Demonstrate Tool Proficiency: Exhibit practical competence in using production-grade tools including Claude Desktop, Google AI Studio, Firebase, and coding agents.
- Synthesize Technical and Business Strategy: Integrate technical knowledge with business strategy to identify and capitalize on AI-driven opportunities within organizational contexts.
- Anticipate AI Evolution: Articulate the trajectory of AI development and prepare for emerging capabilities, positioning organizations for continued competitive advantage.

Target Audience and Prerequisites

Ideal Participants

This program is designed for professionals seeking to leverage AI for competitive advantage without requiring traditional software engineering backgrounds. The curriculum is particularly valuable for:

- Business Leaders and Executives seeking to understand AI capabilities and lead digital transformation initiatives within their organizations.
- Entrepreneurs and Product Managers developing new products or services and seeking to incorporate AI capabilities for market advantage.
- Technical Professionals transitioning into AI development or seeking to expand their toolkit with contemporary AI agent technologies.
- Innovation Managers and Strategy Professionals responsible for identifying and implementing emerging technologies within their organizations.
- Consultants and Advisors seeking to develop practical AI implementation capabilities for client engagements.

Prerequisites

The program is designed to be accessible to participants from diverse professional backgrounds. While no programming experience is required, participants should possess:

- Professional Experience: At least three years of professional experience in business, technology, or related fields to provide context for practical application.
- Digital Literacy: Comfort with contemporary digital tools, cloud-based applications, and web-based platforms.
- English Proficiency: Ability to communicate fluently and professionally in written and spoken English, as course materials, tools, and instruction are delivered in English.
- Commitment to Hands-On Learning: Willingness to engage with practical exercises and dedicate time to pre-work and between-session assignments.

Technical Requirements

All coursework is cloud-based, so a powerful computer is not strictly necessary. However, optimal learning experience requires:

- Computer Access: Laptop or desktop computer with reliable internet connection for accessing cloud-based tools and platforms.
- Recommended Specifications: For participants who wish to experiment with local AI models, a computer with minimum 16GB RAM and modern processor (Intel i9 or Apple M1 or newer) is recommended but not required.
- Account Creation: Participants will need to create accounts with Google, Anthropic, GitHub, and other platforms. Most services offer free tiers sufficient for course requirements, with optional paid upgrades available for advanced features.

Program Structure

The program consists of five intensive modules delivered over five full-day sessions. Each module builds upon previous learning while introducing new concepts and capabilities. The structure balances lecture-style instruction with extensive hands-on practice, ensuring participants develop both conceptual understanding and practical skills.

Module 1: Lecture Introduction and Understanding LLMs

Duration: One full day (9:00 to 16:00 CET)

Module One establishes the technical and conceptual foundation necessary for all subsequent work with AI agents and tools. The module begins with participant introductions and project concept presentations, followed by an introduction to five standardized template use cases for participants who have not yet formulated their own project ideas. The second half provides comprehensive exploration of Large Language Models, their architecture, training processes, and capabilities.

Learning Objectives:

- Develop intuitive understanding of LLM architecture and functioning, moving beyond black-box conceptualization to informed technical comprehension.
- Identify the capabilities and limitations of contemporary LLMs, enabling realistic expectations and appropriate use case selection.
- Bridge concepts from neuroscience, computer science, and practical application to understand the nature of artificial intelligence systems.
- Articulate personal learning objectives and project concepts that will guide subsequent module work.

Session Schedule:

- 9:00 to 9:30 - Professor and Lecture Introduction
- 9:30 to 10:30 - Student Introductions and Project Concept Presentations
- 10:30 to 10:45 - Coffee Break
- 10:45 to 12:30 - Introduction to Five Template Use Cases
- 12:30 to 14:00 - Lunch Break
- 14:00 to 15:00 - Understanding LLMs: Architecture, Training, and Capabilities
- 15:00 to 16:00 - Questions and Module 2 Preparation

Pre-Assignment Required:

Participants must conceptualize an application relevant to their professional requirements or organizational needs prior to Module 1. The application should enhance efficiency or simplify tasks, such as a specialized note-taking tool, data analysis application, or AI-powered analytical solution. Participants should identify a

development goal that allows for iterative model refinement. Five specific template use cases will be provided for participants who have not yet formulated an application concept.

Module 2: Your AI Tools

Duration: One full day (9:00 to 16:00 CET)

Having established foundational understanding of LLMs, Module Two transitions to practical tool mastery. This module introduces the ecosystem of no-code and low-code AI tools that enable non-programmers to harness AI capabilities effectively. Participants gain hands-on experience with frontier AI models, learn to select appropriate tools for different tasks, and begin developing the context engineering mindset essential for advanced AI work.

Learning Objectives:

- Gain hands-on proficiency with multiple frontier AI platforms including Claude Desktop, Google Gemini, Google AI Studio, and specialized tools.
- Develop the ability to select appropriate tools for specific tasks based on technical capabilities, cost considerations, and integration requirements.
- Build confidence with AI tools through experimentation and discovery in a supportive learning environment.
- Understand the fundamental differences between cloud-based and local AI models, including privacy and performance considerations.

Session Schedule:

- 9:00 to 10:30 - Lecture: AI Tool Ecosystem and Selection Criteria
- 10:30 to 10:45 - Coffee Break
- 10:45 to 12:30 - Practical Comparison: Claude Desktop, Google Gemini, and Kimi...
- 12:30 to 14:00 - Lunch Break
- 14:00 to 15:00 - Advanced Tools: LM Studio, n8n Automation, and GitHub Integration
- 15:00 to 16:00 - Questions and Module 3 Preparation

Required Pre-Module Activities:

- Create accounts and explore: Google Gemini, Google AI Studio, Firebase Studio, Google NotebookLM
- Create accounts and explore: Anthropic Claude Desktop, GitHub
- Advanced participants: Download and explore LM Studio, Google Antigravity
- Create account and explore: n8n automation platform

Required Reading:

1. The Context Engineer's Toolkit: Essential AI Tools for All Levels by Dr. Tali Režun - Essential reading providing comprehensive overview of contemporary AI tools and their appropriate applications.

2. Data Sovereignty in the AI Age: Building Your Own Private ChatGPT by Dr. Tali Režun

Module 3: AI Agents - From Chatbots to Autonomous Workers

Duration: One full day (9:00 to 16:00 CET)

Module Three represents the conceptual and practical heart of the curriculum. Participants transition from using AI tools passively to understanding and implementing AI agents, systems capable of autonomous action, goal-directed behavior, and multi-step problem-solving. The module introduces the critical concept of Model Context Protocol, explores agent maturity levels, and provides hands-on experience building and deploying actual agents. Understanding the fundamental distinction between LLMs and AI agents represents a significant competitive advantage in the current technological landscape.

> An AI agent is a large language model that achieves autonomy through tool connectivity, primarily via Model Context Protocol, enabling goal-directed behavior through autonomous execution loops.
>
> — Dr. Tali Režun

Learning Objectives:

- Understand the fundamental distinction between Large Language Models and AI agents, including architectural and functional differences.
- Master Model Context Protocol implementation, the enabling technology for agent autonomy and tool connectivity.
- Build functional AI agents capable of autonomous execution, tool use, and goal-directed behavior.
- Evaluate agent maturity levels and assess readiness for production deployment in specific business contexts.
- Configure and implement coding agents for software development and automation tasks.

Session Schedule:

- 9:00 to 10:30 - Lecture and Practical: Building Agents in Claude Desktop, Installing and Testing MCPs
- 10:30 to 10:45 - Coffee Break
- 10:45 to 12:30 - Practical: Coding Agents with Google AI Studio, Firebase Studio, Antigravity, and Augment Code

- 12:30 to 14:00 - Lunch Break
- 14:00 to 15:00 - Individual Practice: Choosing and Configuring Your Agent
- 15:00 to 16:00 - Questions and Module 4 Preparation

Required Reading:

- Understanding AI Agents: From Chatbots to Autonomous Digital Workers by Dr. Tali Režun - Core foundational text essential for agent comprehension.
- The Year I Started Coding with AI: My Coding Agent Journey by Dr. Tali Režun - Practical insights into coding agent implementation.
- From English to Code: Building Production SaaS with Claude Desktop by Dr. Tali Režun - Technical guide for hands-on laboratories.
- Exploring Early Indicators of AGI in Coding Agents by Dr. Tali Režun - Advanced reading for AGI discussion session.

Supplementary Resources:

- Anthropic Model Context Protocol Documentation - Essential technical reference for MCP architecture.
- Building Effective AI Agents by Anthropic - Technical deep dive into agent architecture and implementation.

Module 4: Context Engineering - Orchestrating AI for Complex Tasks

Duration: One full day (9:00 to 16:00 CET)

Module Four elevates participants from agent users to agent orchestrators through mastery of context engineering, the discipline of designing comprehensive instruction sets and knowledge environments that enable AI agents to tackle complex, multi-step challenges. Context engineering represents the highest-leverage skill in the contemporary AI toolkit. An agent without proper context is analogous to an expert consultant dropped into a meeting without briefing, technically capable but practically ineffective. This module teaches the systematic process of research, documentation, instruction design, and context management that transforms general-purpose AI into specialized, effective problem-solvers.

Learning Objectives:

- Master the systematic process of context development including research, documentation, and instruction design.
- Create comprehensive context packages that enable agents to effectively address complex business challenges.
- Understand and implement project documentation structures including concepts, architectures, blueprints, and RAG systems.
- Develop markdown documentation optimized for AI agent consumption and effective task execution.
- Prepare complete context packages for Module 5 MVP projects, ensuring foundation for successful implementation.

Session Schedule:

- 9:00 to 10:30 - Lecture and Practical: Context Research and Generation for Claude Desktop Projects
- 10:30 to 10:45 - Coffee Break
- 10:45 to 12:30 - Project Documentation Architecture: Concepts, Blueprints, and AI Implementation
- 12:30 to 14:00 - Lunch Break
- 14:00 to 15:00 - Individual Practice: Generating Markdown Documentation for Your MVP
- 15:00 to 16:00 - Questions and Module 5 Preparation

Required Listening & Reading:

- From Prompts to Precision: AI-Generated Research Podcast Discussion | From Lab to Life - Audio content exploring context engineering principles.
- From Prompts to Precision: The Art & Science of Context Engineering by Dr. Tali Režun - Core theoretical and practical foundation.
- Effective Context Engineering for AI Agents by Anthropic - Technical deep dive from engineering perspective.

Supplementary Resources:

- Markdown Guide - Complete reference for markdown syntax and best practices.
- The New Skill in AI is Not Prompting, It's Context Engineering" by Philipp Schmid
- Context Engineering for AI Agents: Lessons from Building Manus - Practical insights from production deployment.

Module 5: Building an MVP - From Concept to Deployment

Duration: Two full days (9:00 to 16:00 CET)

Module Five represents the capstone experience where all prior learning converges into tangible output. Participants will build, test, and deploy actual minimum viable products using AI tools and agents, guided by the comprehensive context packages prepared in Module 4. The module transforms theoretical knowledge and isolated skills into practical entrepreneurial capability. The curriculum accommodates different skill levels through a two-track approach: Google AI Studio for beginners and Google Firebase or Google Antigravity for advanced participants. Regardless of track, all participants will understand the full technology stack, learn deployment fundamentals, and emerge with functioning web applications they can showcase, iterate on, or launch.

Learning Objectives:

- Build complete, functional minimum viable products using AI coding agents and modern development platforms.
- Deploy web applications to production environments using Firebase or alternative hosting platforms.
- Understand full technology stack from development through deployment, including version control and continuous integration.

- Experience firsthand the power of AI-augmented development and gain confidence in building technology products.
- Demonstrate practical competence in the complete product development lifecycle from concept through production deployment.

Day One Session Schedule:

- 9:00 to 10:30 - Lecture and Practical Demonstrations: Development and Deployment Workflows
- 10:30 to 10:45 - Coffee Break
- 10:45 to 12:30 - Guided Practical Work: MVP Development
- 12:30 to 14:00 - Lunch Break
- 14:00 to 16:00 - Continued Practical Work: Development, Testing, and Deployment

Day Two Session Schedule:

- 9:00 to 10:30 - Guided Practical Work: MVP Development
- 10:30 to 10:45 - Coffee Break
- 10:45 to 12:30 - Guided Practical Work: MVP Development
- 12:30 to 14:00 - Lunch Break
- 14:00 to 16:00 - Guided Practical Work: MVP Development

Required Reading:

- From Google AI Studio to Production by Dr. Tali Režun - Essential guide for understanding development pathways.
- From Prototype to Production: Building an AI Widget Platform in 30 Days by Dr. Tali Režun - Case study demonstrating complete development cycle.

Supplementary Resources:

- Firebase Hosting Documentation - Complete getting started guide for deployment.
- Firebase Studio Documentation - Advanced features and integration capabilities.

Assessment and Certification

Assessment Approach

Assessment in this program emphasizes practical competency demonstration rather than traditional examination. Participants are evaluated through continuous assessment across multiple dimensions, reflecting contemporary professional development best practices and alignment with adult learning principles.

Assessment Components:

- Participation and Engagement (20%): Active involvement in lectures, practical exercises, peer discussions, and collaborative problem-solving throughout all modules.
- Module Practical Exercises (30%): Completion of hands-on exercises demonstrating progressive skill development across tools, agents, and context engineering.
- Context Package Development (20%): Quality and completeness of context engineering documentation prepared in Module 4 for MVP development.
- Final MVP Project (30%): Successful development and deployment of a functional minimum viable product demonstrating integration of all program concepts and practical application of learned skills.

Certification

Upon successful completion of all modules and assessment requirements, participants will receive a professional certificate from the Slovenian Institute of Quality and Metrology (SIQ), attesting to their demonstrated competency in AI agent development, deployment, and context engineering. The certificate serves as formal recognition of professional development achievement and can be included in professional portfolios, curriculum vitae, and LinkedIn profiles.

The certification program is designed to meet continuing professional development requirements and provides documented evidence of specialized knowledge in contemporary AI technologies. Certificates are issued in both Slovenian and English languages to accommodate international professional mobility.

Required Tools and Resources

The program utilizes contemporary, production-grade tools widely adopted in professional AI development. Most tools offer free tiers sufficient for course requirements, with optional paid upgrades available for advanced features. The instructor will provide comprehensive guidance on account creation, configuration, and optimal use throughout the program.

Essential Platforms and Tools

Google Ecosystem:

- Google Gemini - Frontier AI model for natural language processing and multimodal tasks
- Google AI Studio - Development environment for building and testing AI applications

- Firebase Studio - Platform for web application deployment and hosting
- Google NotebookLM - AI-powered research and documentation tool
- Google Antigravity (Advanced) - Experimental development platform for sophisticated applications

Anthropic Platforms:

- Claude Desktop - Desktop application for AI agent development and interaction
- Claude AI API - Programmatic access to Claude models for integration (Advanced)

Development and Deployment:

- GitHub - Version control, code repository, and collaboration platform
- n8n - Workflow automation and integration platform
- LM Studio (Advanced, Optional) - Local large language model testing and experimentation

Cost Considerations

The program has been designed to minimize financial barriers while providing access to professional-grade tools. Most required platforms offer generous free tiers sufficient for all course activities. Optional premium features are available for participants who wish to explore advanced capabilities, but are not required for successful course completion. Estimated additional costs for participants choosing to use premium features range from zero to approximately fifty euros, depending on usage patterns and feature selection. The instructor will provide detailed guidance on cost optimization and free tier maximization.

Professor Biography

Dr. Tali Režun

Vice Dean of Frontier Technologies and Professor, COTRUGLI Business School
Dr. Tali Režun is a serial entrepreneur, technologist, and academic who bridges cutting-edge artificial intelligence research with practical business transformation. As Vice Dean of Frontier Technologies at COTRUGLI Business School, he leads educational innovation initiatives and develops advanced curriculum in artificial intelligence, blockchain, and digital transformation for business leaders and MBA students across Europe and Africa.

With over 30 years of entrepreneurial experience, Dr. Režun has founded, scaled, and successfully exited multiple ventures across diverse industries. His entrepreneurial track

record includes three notable exits: Naton Ltd., a regional HR agency that grew to employ over 1,200 people before its successful exit in 2018; TDS Group Ltd. (Hiša na Kolesih), which became the region's leading motorhome and yacht charter company representing seven European manufacturers; and Produkcija97/Hipersound Records, where he established Slovenia's first digital recording studio and built a successful regional record label. His current ventures include Lumina AI (conversational AI platform), Moj AI (legal AI assistant), Block Labs (Web3 infrastructure), and Lighthouse Holding (strategic consulting).

Dr. Režun's professional focus centers on the practical application of AI technologies in business contexts, with particular emphasis on AI agents, context engineering, and rapid MVP development. As a pioneer in AI-assisted development, he has achieved documented 400% productivity gains through systematic experimentation with coding agents including Claude Code, Cursor, and Augment Code. His hands-on research methodology—building production systems rather than merely theorizing about them—distinguishes his academic work and provides students with frameworks grounded in real-world implementation challenges.

His research interests encompass the evolution of AI systems toward autonomous capability, the development of effective context engineering methodologies, and the identification of early indicators of artificial general intelligence in contemporary systems. Dr. Režun has established himself as a leading practitioner and educator in the field of agentic AI, with extensive experience building production-grade systems using Model Context Protocol (MCP) integrations across platforms including GitHub, DigitalOcean, Supabase, and Firebase.

As an active researcher and thought leader, Dr. Režun maintains a substantial publication portfolio focusing on practical AI implementation and frontier technologies. His widely-read "From Lab to Life" content series translates complex AI and Web3 concepts into accessible insights for business leaders and non-technical audiences. His work has been featured across multiple platforms including Medium, where his articles on context engineering, AI agent development, and production deployment have reached thousands of practitioners worldwide. He co-authored research on the energy and water footprint of generative AI published in the International Leadership Journal and maintains an active presence on ResearchGate, LinkedIn, and his personal website at talirezun.com.

Dr. Režun brings a unique combination of academic rigor, entrepreneurial pragmatism, and hands-on technical expertise to the classroom. His teaching methodology emphasizes learn-by-doing approaches, real-world application, and immediate skill development. He has successfully guided hundreds of professionals through the transition from AI novice to capable practitioner, with many participants subsequently implementing AI solutions in their organizations and launching their own AI-powered ventures.

Beyond his academic role, Dr. Režun serves as a core member of the United Nations UNECE CHAIN project, developing global blockchain infrastructure frameworks for UN/CEFACT, and contributes to the Vanguard Leadership initiative reimagining leadership paradigms for an AI-driven era. He was a core contributor to Slovenia's SI-Chain national blockchain pilot and maintains active involvement in multiple frontier technology initiatives across Europe. His work has been recognized through numerous awards including the Beyond 4.0 Award from the Adriatic Council (2018) and endorsements from the Solana Foundation.

Dr. Režun holds a Doctor of Business Administration (DBA) from COTRUGLI Business School, where his doctoral research focused on frontier technologies and business innovation. He earned his Executive MBA from the same institution, combining advanced business education with decades of entrepreneurial experience. He serves as a resident speaker at Blockchain Adria and maintains professional memberships in leading technology and innovation organizations across Europe.
His professional networks span academia, industry, and entrepreneurship, providing students with exposure to current thinking and emerging trends in AI and Web3 development. Dr. Režun's mission is democratizing frontier technologies—making AI and blockchain accessible through education, practical research, and thought leadership that bridges academic rigor with entrepreneurial reality.

Course MVP Templates

For participants who have not yet formulated their own application concept, the program provides five professionally designed MVP templates. These templates represent real-world applications demonstrating practical AI agent capabilities across diverse use cases. Each template includes comprehensive system instructions, technical architecture guidance, and deployment pathways.

Template 1: Modern Website Builder

Description:

Design, code, and deploy professional websites using AI-assisted development workflows. This template demonstrates the complete process from conceptual design through production deployment, utilizing Google AI Studio, Firebase Studio, and Claude Desktop for development orchestration.

Development Process:

- Generate comprehensive context documentation in markdown format
- Develop website code using AI coding agents with iterative refinement
- Deploy to production using Firebase hosting infrastructure

Live demonstration available at: https://studio--studio-7210620570-76386.us-central1.hosted.app/

Template 2: Gemini Scribe - Voice-First Workspace

Description:

A voice-first productivity workspace that transcends simple note storage by understanding context and connecting information to calendar systems. The application processes voice transcripts, identifies action items and dates, and automatically structures information for optimal utility. Development utilizes Claude Desktop and Firebase Studio.

Core Capabilities:

- Accept and process voice transcripts, text notes, and document content
- Identify action items, dates, and key insights through intelligent analysis
- Generate JSON output for Google Calendar integration
- Answer questions about uploaded documents using contextual understanding

Live demonstration available at: https://studio--studio-511713286-41662.us-central1.hosted.app/

Template 3: Invoice Intelligence Dashboard

Description:

Transform unstructured invoice images into structured financial data with intelligent categorization and analysis. This management dashboard application demonstrates advanced image processing, data extraction, and analytical capabilities, converting disparate invoice formats into actionable financial intelligence.

Core Capabilities:

- Extract structured data from invoice images regardless of format variation
- Automatic expense categorization based on context and industry standards
- Anomaly detection flagging unusual pricing against industry benchmarks
- JSON output for downstream integration with accounting systems

Template 4: Tube-to-Text Polyglot Translation

Description:

Unlock global knowledge by consuming one hour of video content in three minutes through intelligent translation and summarization. This application processes video transcripts, translates to target languages, and generates structured summaries optimized for rapid comprehension and learning.

Output Components:

- The Gist - One paragraph executive summary of core content
- Key Takeaways - Five critical bullet points capturing essential information
- Deep Dive - Structured explanation of complex topics with educational focus

- Multilingual translation maintaining context and nuance

Template 5: Nano Banana Pro - Social Creative Suite

Description:

An automated creative agency that maintains brand consistency through intelligent prompt enhancement. The application transforms simple creative requests into detailed, brand-aligned prompts for image generation models, ensuring consistent visual identity across all creative outputs.

Core Capabilities:

- Maintain comprehensive brand guidelines including color specifications and aesthetic principles
- Transform simple user requests into detailed, brand-compliant image generation prompts
- Ensure consistent visual identity across all generated creative assets
- Provide detailed specifications for image generation models including mood, composition, and technical parameters

Additional Program Information

Collaborative Learning Options

Participants have the option to collaborate in groups when developing their minimum viable products. Collaborative work enhances learning outcomes through peer exchange, shared problem-solving, and collective intelligence. Groups typically consist of two to four participants with complementary skills or shared project interests. The instructor facilitates group formation during Module 1 based on project concepts and participant preferences.

Continuous Support

A dedicated Telegram support channel provides continuous assistance during and after class sessions. Participants can post questions, share discoveries, troubleshoot technical challenges, and engage with peers outside formal instruction time. The instructor maintains active presence in the support channel, providing guidance and facilitating peer learning. The support channel remains accessible to participants following program completion, creating a lasting professional learning community.

Program Schedule and Timing

The program consists of five intensive full-day sessions scheduled over a period designed to allow adequate time for pre-reading, practice, and reflection between modules. Each session runs from 9:00 to 16:00 Central European Time, with scheduled breaks for coffee and lunch. The schedule balances intensive instruction with practical work time, ensuring participants can absorb concepts while immediately applying them.

Between-session periods are critical for learning consolidation. Participants should anticipate dedicating approximately two to four hours between sessions for pre-reading, tool exploration, and preliminary work on their MVP projects. This distributed practice approach enhances retention and skill development compared to compressed instruction schedules.

Professional Development Impact

This program represents significant professional development investment with immediate practical application. Participants typically report being able to implement AI solutions in their professional contexts within weeks of program completion. The skills developed are transferable across industries and professional roles, from entrepreneurial ventures to corporate innovation initiatives. The combination of hands-on experience, theoretical understanding, and practical tools positions participants to lead AI integration efforts within their organizations.

Contact Information

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Professional Resources:

- Website: https://talirezun.com/
- LinkedIn: https://si.linkedin.com/in/talirezun
- ResearchGate: https://www.researchgate.net/profile/Tali_Rezun
- Twitter: https://twitter.com/talirezun

Program Host Organization:

SIQ - Slovenian Institute of Quality and Metrology
Website: https://www.siq.si/

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