Mario Klobučarić
Artificial Intelligence Engineer

👤 Profile

I am an Artificial Intelligence Engineer with 5 years of experience in software development, teaching coding, and automation. My expertise lies in building AI applications, software development, and data engineering.

With prior 10 years of experience, I possess a comprehensive perspective on problem-solving and solution-finding. This is complemented by my effective business communication skills and project management experience, gained from leading and contributing to various projects.

💼 Employment History

Artificial Intelligence Engineer at techXflow d.o.o. (self-employed)
November 2023

- **AI Product Management:** Assessing technical feasibility of AI products, leading iterative development, implementing data-centric approaches, managing ambiguity, and fostering continuous learning.
- **AI Product Development:**

  Large Language Models (LLM):ChatGPT, Claude, Gemini, Open-source models

  Retrieval Augmented Generation (RAG), AI agents
- **Software Development:** Python, SQL, JavaScript (React)
- **Data Engineering:** ETL (Extract, Transform, Load) pipelines
- **Cloud Platforms:** GCP and AWS

Teacher & Head of Regional Compeatence Center at Technical School Čakovec, Čakovec
September 2018 — November 2023

- **Led Comprehensive Lectures and Workshops:** Covered subjects, including coding (Python, Flutter), automation, and business communication.
- **Promoted a Culture of Experimentation:** Fostered a learning environment that encouraged trying new things, practical application of theoretical knowledge, and viewing mistakes as essential learning steps.
- **Played a prominent role in the implementation of two EU projects** valued at €7.5 million

Head of International Projects and Sales Network at ENERGY PLUS d.o.o., Ludbreg
January 2016 — July 2018

- Supported top-tier international clients and presented the company at fairs
- Worked on LED lighting projects documentation and investment projects, emphasizing Energy Performance Contracting.

Details

Croatia

00385992656398

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Links

Personal Page

Company Page

LinkedIn

GitHub

Skills

Python JavaScript/

React SQL

LLMs (ChatGPT, Claude, Gemini)

RAG & Vectorbases

REST APIs

Data Science & ML

Flutter

VS Code/ Cursor

Jupyter Notebook Git/

GitHub

GCP / AWS

Firebase

fastAPI Docker

Langchain/LangGraph crewAI

LangSmith

Languages

Croatian

English

German

Agency Director at Međimurska energetska agencija d.o.o., Čakovec

January 2013 — January 2016

- Directed agency operations, resource management, growth strategies and successfully transformed the agency's financial standing toward complete self-sustainability.
- Managed multiple energy-focused projects and campaigns, promoting, and implementing energy efficiency and renewable energy adoption.

Licensed Designer at DORS PROJEKT d.o.o., Čakovec

August 2010 — December 2012

- Designed electrical installations for various sectors, including "smart home" and photovoltaic plants.
- Consulted on renewable energy regulations and privileged producer status.

Designer at ZG-PROJEKT d.o.o. , Zagreb

November 2007 — July 2010

- Designed electrical installations for highways, tunnels, and road lighting
- Estimated savings for lighting fixture replacements

Development Engineer at V-elin d.o.o., Čakovec

June 2006 — September 2007

- Assisted in digital/analog system development and contributed to water monitoring projects.
- Prepared technical documentation and supported related software.

🎓 Education

56 ECTS, Faculty of Organization and Informatics, Varaždin

2017 — 2018

- Specialization: Teachers Education (Pedagogical/Psychological/Didactic/Methodical)
- GPA: 4.55/5

University Specialist of Strategic Entrepreneurship, 60 ECTS, Faculty of Economics, Zagreb

2008 — 2011

- Thesis: Leadership in Social Responsibility & Social Entrepreneurship
- GPA: 4.6/5

Graduate Electrical Engineer (Industrial Electronics), 274 ECTS, Faculty of Electrical Engineering and Computing, Zagreb

2000 — 2005

- Thesis: Multichannel Receiver for Surface Electromyography
- GPA: 4.15/5

Natural Science and Mathematics Gymnasium, Čakovec

1996 — 2000

Awards: 1st (3x) & 3rd (3x) in County Mathematics Competitions (13-18 years)

Hobbies

Reading: Technology & Future, People & Mindset, Personal Growth

Others: Running, Playing Guitar

✪ Courses & Certifications

DeepLearning.AI: Retrieval Augmented Generation (RAG), Coursera
August 2025

Generative AI Leader, Google Cloud Certification
July 2025

DeepLearning.AI: Data Engineering (AWS) - Professional Specialization, Coursera
October 2024 — December 2024

Various online courses on topics: Python, LLMs, RAG, Vector Databases, Data Science, ML, Flutter, GCP and similar, - Udemy, DeepLearning.AI
2019 — 2024

★ Projects

- AI-Powered Web-based Platform for Energy-Efficient Renovations and Renewable Energy Consulting
- Agentic workflows + RAG
- MCP server + Claude Desktop
- Text to SQL agentic app with open-source models
- Educational Assistant App Study Buddy - Frontend (Flutter), Backend (Flask)
- Machine learning manual based on Kaggles Titanik dataset
- Robotic arm system with Python GUI on Raspberry PI
- Raspberry PI web server for environmental data visualization
- Webpages