

DION GURGULE

DATA & AI ENGINEER | PYTHON

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PROFILE

Data and AI engineer with a B.Sc. in Computer Science and Engineering and practical experience building Python applications, machine-learning projects, data products, APIs, and full-stack systems. Experienced in turning messy data into validated, explainable outputs through reproducible pipelines, model evaluation, and usable interfaces. Also experienced with AI-assisted development and integrating intelligent workflows into software products.

TECHNICAL SKILLS

Programming & data: Python, SQL, pandas, NumPy, PostgreSQL, MySQL, Databricks SQL, data cleaning, feature engineering

Machine learning & AI: scikit-learn, Random Forest, decision trees, TensorFlow/Keras, model evaluation, forecasting, OCR, LLM/API integration

Backend & web: FastAPI, Pydantic, REST APIs, Streamlit, TypeScript, Next.js, React, Node.js, Supabase

Engineering: Docker, Git/GitHub, pytest, Jupyter, validation, reproducibility, deployment, structured outputs

EXPERIENCE

Freelance Software Developer — Applied Data & AI

2025–Present

- Build Python, data, machine-learning, and full-stack applications from problem definition through implementation, testing, deployment, and iteration.
- Develop reliable workflows with typed request models, input validation, explicit error handling, authenticated services, and reproducible Git-based delivery.
- Work across data pipelines, FastAPI services, Streamlit interfaces, Next.js applications, AI-assisted workflows, and production-oriented product systems.

Data Entry Specialist — Workflow, Prishtina

May–Sep 2024

- Maintained accurate operational datasets under deadlines and supported reliable downstream reporting in Excel and Google Sheets.

SELECTED PROJECTS

Kosovo Investment Data Platform

Python, Streamlit, ASKdata API, World Bank API · Public data engineering

- Built a reusable pipeline combining Kosovo public datasets and World Bank indicators into a normalized, cached data contract with validation, fallbacks, scoring, anomaly flags, and an interactive interface.

Iowa Housing ML Pipeline

Python, pandas, scikit-learn, TensorFlow/Keras, FastAPI, Streamlit · Machine learning systems

- Built an end-to-end house-price prediction workflow with feature engineering, model comparison, API-key-protected batch prediction, CSV validation, serialized models, and a Streamlit client; reported held-out R^2 of 0.8587 on one random 80/20 split.

Traffic Sign Detection System

University team project · React, Node.js/Express, Python/Flask, TensorFlow/Keras, CockroachDB

- Contributed to frontend setup, authentication, dashboard functionality, and integration around a full-stack traffic-sign recognition workflow. Team project; the listed contribution does not claim ownership of the ML model.

Online Retail Analytics Platform

Python, pandas, RFM, Plotly, Streamlit, pytest · Analytics engineering

- Built reusable cleaning, KPI, visualization, customer-segmentation, recommendation, and Excel-export modules with a tested Streamlit analytics workflow.

EDUCATION & CERTIFICATIONS

B.Sc. Computer Science and Engineering — UBT, Prishtina

Jul 2026

Data Science Bootcamp Certificate — Makerspace Innovation Center & CNM Ingenuity, 2026

Automate the Boring Stuff with Python — Certificate, 2024