Diego Santos

Software Engineer / ML

CONTACT

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PROFILE

Detail-oriented Python Developer with experience in REST API development, data analysis, and practical projects in Machine Learning and Artificial Intelligence. Strong foundation in databases and problem-solving. Seeking a role as a Python Developer or Junior ML Engineer

PROFESSIONAL EXPERIENCE

Python Developer & Data Enthusiast – Ireland (Present)

- Engineered robust REST APIs and CRUD systems using Flask/FastAPI to support data-driven solutions.
- Developed and deployed Machine Learning models (regression and classification) for predictive analysis.
- Built custom AI models for intelligent automation and complex data analysis.
- Designed and implemented dashboards to visualize key data insights and model performance.
- Deployed proof-of-concept applications using Flask and managed code via Git/GitHub.

Automotive Module Programmer – Santech (Brazil) 2014 - 2022

- Programmed, calibrated, and updated ECUs for diverse vehicle systems, resolving software bugs and optimizing embedded firmware.
- Ensured reliable system integration using industry protocols (CAN/LIN/K-line) and performed advanced diagnostic analysis.
- Executed thorough post-update testing to guarantee system stability and vehicle safety.

EDUCATION

Tokio School — Portugal

- Artificial Intelligence (2025)
- Machine Learning (2024 – 2025)
- Python Development (2024)

Estácio de Sá University — Brazil

- Bachelor's Degree in Database Technology (2019 – 2023)

RECENT PROJECT

Fraud Guardian - End-to-End Fraud Detection System

Python | Scikit-learn | Pandas | FastAPI | Streamlit | Docker | SHAP | Git | Machine Learning

- Built an end-to-end fraud detection pipeline from data processing to deployment.
- Achieved ~81% precision and 83% recall after model tuning and threshold optimization.
- Delivered model explainability with SHAP and a Streamlit dashboard for real-time predictions.
- Deployed using FastAPI + Docker, ready for cloud scaling and production use.