REVANTH PUVANESWARAN

MACHINE LEARNING ENGINEER

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A programmer who believes combining AI & Neuroscience is a key to Artificial General Intelligence.

EDUCATION

MSc Computer Science – EPITA, Paris **Sep 2024 - Aug 2025**

Specialization : Data Science and Analysis.

- Thesis : Computer Vision

EMPLOYMENT

Process Associate, Prochant **Feb 2023 - May 2024**

- Wrote and executed equipment qualification & process validation reports.
- Reported production flaws to quality assurance teams.

Consultant Data Scientist, iQGateway **Oct 2021 - Jan 2022**

- Developed a Python library to describe and interpret black-box ML models.
- Solved Vehicle Routing Problem (VRP) using evolutionary algorithms.

Machine Learning Intern, Gloify **May 2021 - July 2021**

- Built a CNN-based visual search engine for e-commerce.
- Managed and processed a 100+ GB dataset on AWS S3.

PROJECTS

Personal Website: www.revanthpuvanes.com (for additional information and projects)

Thesis (Ongoing)

Title: A Custom Lightweight Convolutional Neural Network Architecture for Edge-Based Inference using Arduino

- Designed a resource-efficient CNN for real-time inference on microcontrollers (Arduino).
- Tuned architecture with batch normalization, pooling, and activation layers.
- Tech: Arduino, Neural Networks, TensorFlow Lite, OpenCV, Python, NumPy

MLOps

- Built an ML app using Streamlit (UI), FastAPI (deployment), and PostgreSQL (storage).
- Automated predictions and data ingestion via Apache Airflow.
- Ensured data integrity with Great Expectations and built drift-monitoring dashboards in Grafana.
- Tech: Airflow, Streamlit, FastAPI, Grafana, PostgreSQL, Python

Model Describer

- Created a tool to interpret black-box ML models and highlight performance discrepancies across subgroups.
- Published as a PyPI package.
- Tech: Python, Plotly, Pandas, ML Modeling

SKILLS

- **Programming & Tools:** Python, SQL, Git, Ubuntu (Linux)
- **ML/DL:** TensorFlow, PyTorch, Keras, scikit-learn, OpenCV
- **Neural Network Architectures:** CNNs, RNNs, LSTMs, Transformers, Autoencoders, GANs
- **Data Engineering & Databases:** Apache Airflow, ETL, PostgreSQL, AWS
- **Frameworks & Visualization:** Streamlit, FastAPI, Flask, Tableau, Plotly

LANGUAGES

English (C1 – Advanced) & **French** (A2 – Pre-Intermediate)