Paula Robles López

paumurl   my linkedin   paularobleslopez   [redacted]

Experience

Jul 2023 – Present

Junior Data Scientist at indigitall, Spain
- Engineered scalable **Python AI systems**, leveraging **Redis and Pub/Sub** for high-performance caching and background task orchestration.
- Orchestrated and maintained high-availability production environments with **Kubernetes** and **Google Cloud Platform (GCP)**, increasing system reliability and scalability.
- Built automated **CI/CD pipelines** using **CircleCI and ArgoCD**, accelerating deployment cycles and reducing release errors.
- Developed and optimized robust **API endpoints**, enabling seamless service integration and improving application performance.
- Designed efficient database schemas and automated data workflows using **Airflow DAGs, BigQuery, AlloyDB, and PostgreSQL**, transforming raw data into actionable insights.

Oct 2021 – June 2022

Data Analyst Intern at CBGP, Spain
- **Automated** a HISAT2-StringTie pipeline for **transcriptome assembly** using Arabidopsis RNAseq files, in Bash and Python.
- Conducted **differential gene expression data analysis** in Arabidopsis and presented the results using data visualization techniques, in R.

Education

2022 – 2023

MSc in Data Science at Polytechnic University of Madrid, Spain
Specialized in cloud, machine learning, and data analysis.

2018 – 2022

BSc in Computational Biotechnology at Polytechnic University of Madrid, Spain
Special interest in data mining, machine learning and database management.

Projects

2023 – 2023

MSc thesis about GPT models – at Polytechnic University of Madrid, Spain
Developed a custom GPT chatbot with a Flask REST API, SQLAlchemy, and Waitress for local hosting. Available on GitHub.

Grants

– Collaboration fellowship, 2021/2022
– Best Record Award, 2022/23

Languages

Spanish (native), English (C1 Advanced) and German (basic).

Skills

- Experienced in **Python**, **SQL**, **Git** and **Bash**.
- Comfortable with **R**, **Docker**, **FastAPI**, **Postman**, **Kubernetes** and **Google Cloud Platform**.
- Familiar with **PostgreSQL**, **BigQuery**, **AlloyDB**, **Airflow DAGs**.
- Familiar with **HTML** and **CSS**.