

YIANNIS GREGORIOU

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PROFILE

Data-driven professional transitioning from Civil Engineering into Data Analytics and Data Engineering, with strong quantitative problem-solving skills and hands-on experience in Python, SQL, machine learning, and data automation. Experienced in building data pipelines, automated valuation models, and knowledge systems across real estate and financial domains. Skilled in data cleaning, transformation, and integration, with a proven ability to turn complex datasets into actionable insights that support business decisions and operational efficiency.

TECHNICAL SKILLS

Languages & Tools: Python (Pandas, NumPy, SQLite, TensorFlow), SQL, Power BI, Databricks, Docker, MLflow, FastAPI, Streamlit, Git

Methods: Data pipelines & ETL, automated valuation modelling, machine learning (regression, classification, neural networks), data validation & reconciliation, reporting automation

Certificates: Databricks Data Engineer Associate • Microsoft Power BI Data Analyst (PL-300)

PROFESSIONAL EXPERIENCE

Independent Projects & Professional Development

- Completed advanced training in Financial Engineering and Artificial Intelligence, applying quantitative finance, time-series analysis, and machine learning techniques to financial datasets.
- Developed and deployed a stock and cryptocurrency forecasting platform using machine learning models, automated data pipelines, and interactive visualisations.
- Contributed to the development of an Automated Valuation Model (AVM) for real estate, leveraging feature engineering and large-scale property datasets to improve valuation accuracy.
- Applied statistical modelling, machine learning, and predictive analytics in financial and real estate domains.
- Utilised Python, SQL, Power BI, Streamlit, FastAPI, Docker, and MLflow to deliver end-to-end data analytics and machine learning solutions.

Placy.ai — Business Analyst *Aug 2024 – Dec 2025*

- Designed and maintained data pipelines supporting an Automated Valuation Model (AVM) for residential real estate markets.
- Acquired, cleaned and transformed large-scale property datasets using Python (Pandas, NumPy) and SQL to improve data quality and model performance.
- Developed analytical workflows and valuation methodologies used to support real estate investment and market intelligence decisions.
- Built a structured knowledge platform covering taxation, VAT, planning regulations and legal frameworks across Cyprus, Greece and the UK, enabling rapid access to regulatory information using Azure Question Answering Bot.
- Collaborated with product and business stakeholders to identify new data-driven opportunities and align platform development with market needs.
- Contributed to the design and development of innovative PropTech solutions, combining real estate expertise with data analytics and machine learning techniques.

Le Wagon — Data Science Bootcamp *Apr 2024 – Jul 2024*

- Completed an intensive programme in Python, SQL, machine learning and data analysis.
- Built and deployed an ML-based forecasting system for stocks and cryptocurrencies using FastAPI and Streamlit, with MLflow experiment tracking and Docker containerisation.
- Applied regression, classification and neural network models within team projects using Git and agile practices.

BAM Nuttall — Senior Designer & Section Engineer *May 2017 – Apr 2024*

- Analysed complex engineering and geotechnical datasets to support project planning, risk management and ground modelling.
- Automated engineering workflows and reporting using Revit Dynamo, improving drawing production and operational efficiency.
- Contributed to a Quality Control Plan and digital, data-driven construction initiatives, strengthening data validation and reporting across site teams.

G.P. Zachariades (Bahrain) — Site / Project Engineer *Jun 2014 – Feb 2017*

- Delivered technical reporting, progress tracking, cost variation analysis and quality assurance on major infrastructure projects (King Fahd Causeway observation tower; One&Only resort).

EDUCATION

MSc (Hons) Structural Engineering — Cardiff University, UK *2012 – 2013*

BEng (Hons) Civil Engineering — Cardiff University, UK *2009 – 2012*