

GREGORY BARMPPAS

DATA SCIENTIST | AI ENGINEER | TIME SERIES
FORECASTING | GENERATIVE AI | LLM APPLICATIONS

PROFILE

Data Scientist / AI Engineer with 4+ years of experience developing machine learning, demand forecasting, predictive analytics, and Generative AI solutions. Experienced in statistical modeling, ensemble learning, time-series forecasting, NLP, LLM applications, and production AI systems. Strong background in Python, SQL, scikit-learn, PyTorch, FastAPI, cloud technologies, and end-to-end AI solution delivery.

CONTACT

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<https://github.com/GregB712>

<https://portofolio-one-liart.vercel.app/>

MOST USED TECHNOLOGIES

- Python, Pandas, NumPy, Scikit-Learn, XGBoost, LightGBM, Statistical Forecasting, Time-Series Analysis
- PyTorch, TensorFlow, Neural Networks, NLP
- OpenAI API, LangChain, MCP, RAG, Prompt Engineering, Agentic AI, Embeddings, Semantic Search
- SQL, MongoDB, AWS, Vector Databases
- FastAPI, Docker, Kubernetes, Git, CI/CD

LANGUAGES

- Greek (Mother tongue)
- English (C2 - Certificate of Proficiency)



WORK EXPERIENCE

Data Scientist

Sep 2025 - Current

Deus Ex Machina

- Designed and deployed AI applications using OpenAI APIs, LangChain, FastAPI, and cloud-native architectures.
- Built Retrieval-Augmented Generation (RAG) systems leveraging embeddings, vector databases, and semantic search.
- Developed agentic workflows and AI assistants for information retrieval, document processing, and decision-support applications.
- Implemented NLP pipelines combining LLMs, clustering, classification, information extraction, and semantic retrieval.
- Collaborated with engineering teams to productionize AI solutions through APIs, containerization, and deployment workflows.
- Evaluated LLM performance using structured testing, prompt optimization, and retrieval quality metrics.

Data Scientist

Nov 2022 - Oct 2024

Dataviva

- Designed and optimized machine learning and statistical forecasting models for retail demand forecasting across large-scale product and store datasets.
- Developed predictive analytics solutions using ensemble learning techniques and feature engineering methodologies to improve forecast accuracy.
- Built automated data pipelines for data preparation, model training, evaluation, forecasting, and reporting.
- Conducted model validation, backtesting, error analysis, and performance monitoring to ensure reliable production forecasts.
- Led proof-of-concept initiatives and technical demonstrations for enterprise clients.
- Collaborated with stakeholders to translate business requirements into scalable AI and analytics solutions.

Application Consultant/Engineer

Oct 2021 - Nov 2022

Veltio

- Developed client-specific analytics and forecasting applications for supply chain optimization.
- Collaborated with business stakeholders to define requirements and translate operational challenges into data-driven solutions.
- Supported forecasting model implementation and deployment within customer environments.
- Participated in solution design, validation, and performance evaluation processes.



EDUCATION

MSc Data and Web Science

Oct 2021 - Sep 2024

School of Informatics | Aristotle University of Thessaloniki

Erasmus+ Computer Science

Jan 2021 - June 2021

Software Engineer | Mälardalen University

BSc Computer Science

Sep 2017 - Sep 2021

School of Informatics | Aristotle University of Thessaloniki