





Marios Vottas


Data Scientist | MSc in Data Science

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Profiles

 [Marios Vottas](#)

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 [Personal Website](#)

Summary

Detail-oriented Data Scientist with a specialization in Natural Language Processing. Equipped with skills in machine learning, deep learning, NLP, and GenAI combined with a strong ability to work effectively within a team. Motivated to discover innovative solutions and remain updated with the latest technological advancements. Seeking a new role that offers greater responsibility, independence, and opportunities to experiment with cutting-edge technologies.

Experience

Alpha Bank 2023/10 - Today

Associate Data Scientist

- Developing Topic Discovery from customer reviews in greek language using Zero-shot classification, Neural Networks and GenAI (LLM).
- Maintaining CI/CD pipelines.
- Migrating existing projects into a private cloud infrastructure (CP4D).

IntTrust S.A. 2023/07 - 2023/09

Business Intelligence Engineer

- Built Data Warehouse and ETL processes for a major Bank and a Shipping company.
- Creating reports for clients in the energy sector.

Greek Army 2022/09 - 2023/06

Soldier of Research and IT

- HelpDesk | Sysadmin
- Personnel training

Technical Skills

Python **Machine Learning**

Deep Learning **SQL & NoSQL**

NLP **GenAI**

Soft Skills

Adaptability **Teamwork**

Analytical Thinking **Problem Solving**

Education

NCSR Demokritos Master of Sciences

MSc in Data Science

University of Peloponnese Bachelor of Science

Informatics and Telecommunications

Projects

Drug to Drug Interaction Mutliclass Prediction Graph on Biomedical Literature Knowledge Graphs

- Fine tuned Random Forest, upsampled/downsampled dataset to create a strong baseline.
- Machine Learning using Graph Embeddings and semantic triples to discover adverse effects between drugs.
- Compare results between Graph Embeddings and baseline.

Topic Discovery

Version 1:

- Clustering using BERTopic and LDA to identify topics.
- Classification using sentence embeddings (HuggingFace transformers) and Deep Neural Networks for scoring future data.

Version 2:

- Zero shot classification utilizing our local Llama 3 model.

Medical Image Classification

Classification of chest X-Rays & Brain MRIs

- Designed CNN architecture from scratch.
- Fine tuned pre-trained models using transfer learning.

Certifications

10+ Udemy Courses (more than 60 Hours)

NLP | Deep Learning | MLOps | Transformers | GenAI

IBM SPSS Modeler & IBM CP4D

Interests

Sports | Reading Books

Languages

Greek (Native)

English (Fluent)