

Georgios Xanthopoulos

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SUMMARY

I am currently in the internship phase of my Master studies in Business Analytics, specializing in Computational Intelligence and built on a solid foundation in Applied Mathematics. I am passionate about leveraging deep learning and reinforcement learning to drive data-driven decision-making and solve complex challenges. I enjoy working on recommender systems and AI models that uncover patterns in large datasets, enabling smarter, more personalized experiences. As a team-oriented professional, I thrive in brainstorming sessions, where collaboration and diverse perspectives lead to innovative solutions. With strong skills in Python, PyTorch and Pandas, I am committed to developing impactful machine learning models with integrity and a problem-solving mindset.

EDUCATION

Vrije Universiteit Amsterdam

Sep 2022 -Present

MS, Business Analytics - Computational Intelligence

Amsterdam, The Netherlands

- Field of interest: Deep Learning, Machine Learning, Reinforcement Learning, Recommender Systems, Statistical Modeling.

University of Crete

Nov 2021

BS, Applied Mathematics – Mathematical Modeling & Scientific Computing

Heraklion, Greece

- Field of interest: Statistics, Stochastic Processes, Numerical Analysis, Mathematical Modeling.
- Extracurricular: Co-Founder of Aesthetics Protection Association. Led campus cleanup initiatives and proposed -facility improvements, enhancing the study environment.

WORK EXPERIENCE

Vrije University of Amsterdam

Sep 2022 – Present

Teaching Assistant

Amsterdam, The Netherlands

- Tutored master's students in Data Mining and Machine Learning for the Quantified Self.
- Tutored undergraduate students in Statistics.
- Graded assignments and exams, provided detailed feedback, supervised weekly sessions, and conducted oral assessments to uphold academic standards and integrity.

Foundation for Research and Technology – Hellas (F.O.R.T.H)

June 2021 - Nov 2021

Undergraduate Research Assistant

Heraklion, Greece

- Explored the potential of Convolutional Neural Networks for the classification of steady states in the Allen-Cahn reaction-diffusion equation.

University of Crete

Sep 2018 – June 2020

Teaching Assistant

Heraklion, Greece

- Voluntarily tutored undergraduates in Programming Languages I and II.
- Graded assignments, organized tutorials, and guided students to successfully pass their exams.

PROJECTS

“Kaggle competition: [Personalize Expedia Hotel Searches](#)”.

- Built a learning-to-rank model using XGBoost's LambdaMART with Polars for fast data processing, achieving an NDCG score of 0.50 on the public leaderboard.
- Developed a data analysis dashboard with Dash and Plotly to visualize ranking performance and feature insights.

“Mood Forecasting using Phone Data: Trees Versus Neurons”.

- Developed models to forecast users’ next-day mood from app usage data.
- Leveraged Random Forest and LSTM architectures using scikit-learn and TensorFlow.

“Exploring Deep Reinforcement Learning for Robotic Tasks in Sparse Reward Environments”.

- Benchmarked DQN, DDPG, and SAC algorithms using Stable-Baselines3 and OpenAI Gym on multi-goal robotic tasks with sparse rewards.
- Evaluated learning stability and task success rates to identify the most effective approach.

SKILLS & INTERESTS

▪ Hard Skills:

Python • Pandas • Polars • XGBoost • PyTorch • TensorFlow • Dash • Plotly • Deep Learning • Machine Learning • Statistics • NumPy • Scikit-learn • R (MASS, glmnet, lme4, car for regression analysis) • Markdown • LaTeX

▪ Soft Skills:

Teamwork • Mentoring • Decision Making • Public Speaking • Emotional Intelligence • Analytical Thinking

- **Hobbies and Interests:** Psychology • Cinematography • Popular Science • Swimming • Beekeeping • Volunteering