KONSTANTINOS LEONTARIDIS

PHYSICIST - DATA SCIENTIST

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ABOUT ME

Technical Skills	Python (NumPy, (Geo)Pandas, Matplotlib, Seaborn, Scikit-Learn, SciPy, Keras, PyTorch, Folium, PySpark, JAX, Xarray), MS Office (Excel, Powerpoint), SQL, MATLAB, Azure (Databricks, DevOps).
Languages	English (Fluent), Greek (Native).
Interests	Travell/Landscape photography, Astronomy, Skiing, Music production, Guitar, Piano.

WORK EXPERIENCE

Data Scientist

ABN AMRO Bank   Amsterdam, NL (Nov. 2023 - Nov. 2024)

- Involved in the development of an early warning system for predicting risky clients using survival analysis.
- Involved in the redevelopment of the Lease LGD model, focusing on the model pipeline optimization and reducing the overall runtime by 25% using PySpark.
- Implement tasks on data visualization of the model outcome, improving the readability and interpretation of results.
- Created 20+ SQL queries for data collection and filtering to support model dataset development.

IT Audit Junior Consultant

Deloitte   Thessaloniki, GR (June 2021 - Sept. 2021)

- Conducted IT audits, identified risks and assisted with data analysis and stakeholder interviews.

Data Analysis/Meteorology Intern

Hellenic National Meteorological Service   Thessaloniki, GR (July 2018 - August 2018)

- Created short-term weather forecasts for 7 airport locations in Greece.
- Developed dynamic visualizations of meteorological data for presentations using PowerPoint.

RESEARCH EXPERIENCE

GRAPPA/Undark Group

Graduate Student   Amsterdam, NL (Sept. 2022 - Oct. 2023)

- Developed a simulation-based inference pipeline to analyze Stellar Streams and constrain the Galactic potential.
- Employed advanced deep neural networks and conducted extensive simulations using the Snellius cluster.

Environmental Informatics Group

Research Assistant   Thessaloniki, GR (Sept. 2020 - Sept. 2021)

- Enhanced low-cost air quality sensors with machine learning algorithms for better sensitivity and precision.
- Analyzed the calibrated time series data for trend projection and air pollution forecasting.

EDUCATION

Master's in Physics and Astronomy

University of Amsterdam   Amsterdam, NL (2024)

- Track: Gravitation and Astroparticle Physics.

Certification on Big Data & Artificial Intelligence

Athens Tech College, Code.Hub, Microsoft   Athens, GR (2021)

- Developed a predictive pricing model and conducted A/B testing on user interface variations for an online rental platform during the 2-month data science seminar.

Master's in Environmental Physics

Aristotle University of Thessaloniki   Thessaloniki, GR (2021)

- Specialization: Environmental Data Analytics.
- Followed most of the courses of the Master in Environmental Physics without graduating. (82 ECTS completed)

Bachelor's in Physics Hons. (244 ECTS)

Aristotle University of Thessaloniki   Thessaloniki, GR (2019)

- Specialization: Atmospheric Physics, Nuclear Astrophysics.
- Member of Space & Aeronautics Team as Orbital Engineer.