Dr. Olympia Dartsi

Researcher & Data scientist

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WORK EXPERIENCE

NOV 2021 – CURRENT

Tempr.
Lead Data Scientist

- I built time series algorithms including ARIMA and LSTM which achieved an average accuracy of 80%
- I developed constrained optimization algorithms for optimizing the budget and the bid of advertising campaigns.
- I worked closely with other tech teams, the product team and stakeholders in order to provide a smooth delivery of the product.

JUNE 2020 – OCT 2021

Dreamin
Data Scientist

- I implemented a multi-armed bandit algorithm (UCB) for budget allocation on Facebook and Google advertising campaigns.
- I deployed a K-means clustering algorithm for audience and time targeting of the advertising campaigns.

SEPT 2016 – OCT 2019

CERN
Ph.D. candidate

- I developed a Boosted Decision Tree (BDT) algorithm for distinguishing signal from background events.
- I implemented a likelihood method for electron identification.
- I performed an unfolding Bayesian method to obtain the probability density function of the signal before smearing effects from the detector.

  Thesis record.

EDUCATION

SEPT 2016 – OCT 2019

Ph.D Experimental Particle Physics
Université Grenoble Alpes, France.

SEPT 2014 – SEPT 2016

M.Sc. Computational Physics
Aristotle University of Thessaloniki, Greece.

SEPT 2008 – SEPT 2014

B.Sc Physics
Aristotle University of Thessaloniki, Greece.

PUBLICATIONS

- Papers: as single author and main analysis team member, with the ATLAS collaboration.
- Talks on behalf of the ATLAS collaboration, in Moscow and Sheffield.
- Poster: on behalf of the ATLAS collaboration at CERN.

TECHNICAL SKILLS

Programming languages and frameworks:
Python (NumPy, Pandas, Scikit-Learn, TensorFlow, Matplotlib, Seaborn), C++

Others:
Git, SQL, Superset, Docker, LaTeX, Mathematica, Matlab

Languages:
Greek (native), English (C2), French (B2), German (A2)

System languages:
Braille

CHALLENGES

Google's coding challenge: Foobar.

COURSES & CONFERENCES

Courses

- TensorFlow2 and Keras Deep Learning Bootcamp, Udemy.
- TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning, Coursera .
- Machine Learning with Python, Coursera.
- Data Visualisation with Python, Coursera.
- Deep Learning Prerequisites: The Numpy Stack in Python, Udemy.
- Beyond Jupyter Notebooks, Udemy.

Conferences

- 3^{rd} IML Machine Learning Workshop, CERN (2019).
- School of Statistics, Machine Learning, France (2018).
- Monte Carlo School, Germany (2017).
- 1^{st} Electroweak symmetry breaking school, Italy (2018).
- Moscow International School of Physics, Russia (2019).

SOFT SKILLS

Goal oriented
I believe in action over long-winded discussions. I listen to everyone's viewpoints and use my judgment to immediately act based on consensus to achieve goals quickly and efficiently.

Time and task management skills
As Head of an R&D department, I believe that effective time planning and task attribution, are crucial for the prospect and potential of the team's success and development.

Accountable
I believe that taking ownership of my mistakes is vital to my professional development and plays a key role in maintaining transparency in the team.