Spyros Georgopoulos

Data Scientist

Contact

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Social

https://www.linkedin.com/in/georgopoulos-spyridon
https://github.com/ownedbyphysics?tab=repositories

Skills

- Pandas, NumPy, Matplotlib, Seaborn, Plotly, Scikit-learn, NLTK, SpaCy, Keras, TensorFlow, PyTorch, Transformers, Langchain, OpenAI, SciPy, Scrapy, BeautifulSoup, OpenCV
- HTML - CSS - XPath
- Flask, Dash, Spotfire, Tableau, Git, Unit Testing, Terraform scripts
- AWS, DSS (Dataiku)

Data Science Highlights

- **Main author in a peer-reviewed publication (Inderscience sumbissions)**
  Title: Reservoir Computing vs. Neural Networks in Financial Forecasting
- **Poster presentation in the Analytics Summit Conference - New York 2023**
  Title: Global Clinical Supplies AI alerts

Related interests

- Quantum Computing / Quantum Machine Learning

Professional Experience

Pfizer
Senior Data Scientist | Apr 2022 - Present

End to end data science applications in Pfizers Global Clinical Supplies group.
- Develop a NLP based application focusing on automating the reading, classification, and severity measurement of global events and emails received by Pfizer's Global Security Centers. The application aimed to identify potential risks for the company's clinical centers.
- Created and maintained dashboards and web applications to sustain predictive models pertaining to global clinical sites. Specifically, focused on packing and labeling processes and inventory lot monitoring.
- Supervised college interns within Pfizer's organization who were in the process of completing their dissertations. Provided guidance and mentorship to support their research and project development, ensuring the successful completion of their academic requirements.

Apiron Technologies
Data Scientist | Sep 2019 - Apr 2022

- Develop a sentiment analysis and an emotion detection tool for in-house and client-side purposes.
- Implement a forecasting functionality to analyze time series and predict future sales and trends for several clients.
- Build a Recommendation System for several e-commerce platforms, based on product features, text description and image similarities.

FORTH-IESL
Scientific personnel | Aug 2015 - Mar 2017

- Build simulations describing the interaction of ultra-short pulsed lasers with different kinds of materials. Specifically, investigation of heat diffusion, thermo-elastic-plastic surface effects and Fluid Dynamics (hydro-dynamical) results.
Techniques used: Arithmetic analysis (Finite Difference Time Domain methods) , Heat-Diffusion/Navier-Stokes/Elasto-Plastic equations.
- Experimental lab work (laser laboratories): Material processing via ultra-short laser pulses to confirm the theoretical modeling work.
Techniques used: The analysis is based on SEM (Scanning Electron Microscope) results regarding the materials surface topography.

Education

MSc in Data Science
International University of Thessaloniki - 2019

Research: Financial Forecasting with Deep Learning (Neural Networks and Reservoir Computing)

MSc in Physics (Photonics & Nano-electronics)
University of Crete - 2017

Research: Theoretical modelling of Ultra-short laser pulses interacting with matter

BSc in Physics
Aristotle University of Thessaloniki - 2014

Specialized in computational physics and non-linear dynamics