

Serafeim LOUKAS

Senior Data Scientist

Nationality: **Greek**
DOB: **25/11/1992**
Swiss Work Permit: **Ci**
Marital Status: **Married**



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Experienced (8+ YoE) Data Scientist with international background and deep knowledge in Machine Learning, Data Science, AI, Predictive modeling, Statistics, Programming & Agile Project Management. Strong stakeholder management skills. Ranking **#12 all-time respondent** for Machine Learning on Stack Overflow.

Professional Experience

Aug 2024–Present	Data Scientist International Air Transport Association (IATA), Geneva, Switzerland <ul style="list-style-type: none">Ideating, designing, leading, and implementing cross-divisional ML & LLM solutions (AWS, GCP) to drive business value across IATA global aviation network.Mentoring & coaching two Data Science Interns on ML/AI projects (agile development).Regularly presenting complex analytical findings to internal & external stakeholders, translating analytical concepts into actionable business strategic recommendations.
Mar 2023–May 2024	Data Scientist Natural Cycles, Geneva, Switzerland <ul style="list-style-type: none">Enhanced a Deep Learning predictive model to boost product performance & value for the customers. Developed strong stakeholder management skills.Performed Data analysis on <i>Google Cloud Vertex AI</i> (Scikit-Learn, Tensorflow) in Agile environments with cross-functional collaboration.
Jun 2021–Feb 2023	Data Scientist University of Geneva & University Hospital of Bern, Switzerland. <ul style="list-style-type: none">Applied and implemented a plethora of Machine Learning and Data Science methods (supervised, unsupervised, predictive, multivariate, statistical) for several research projects that turned into published peer-reviewed manuscripts.Mentored 4+ Master and PhD students on ML projects over several semesters that led to published journal papers.
May 2020–Present	ML & Data Science Writer Medium Corporation, https://seralouk.medium.com/ <ul style="list-style-type: none">"ML & AI explained simply": Authored 50+ high-quality articles on machine learning topics (hobby activity).
Jun 2017–May 2021	Research Scientist, PhD EPFL (Swiss Federal Institute of Technology of Lausanne), Switzerland. <ul style="list-style-type: none">Mastered the field of Biomedical Engineering, Machine Learning, Data Science, Statistics & programming in Python, Jupyter & MATLAB by successfully completing 6+ research projects that turned into publications.Developed exceptional scientific writing & communication skills, strong sense of teamwork and collaboration by working on 6+ projects with technical and non-technical personnel.
Jun 2017–May 2021	Teaching Assistant Master courses: Image Processing I, Image Processing II, Signal processing for brain imaging. Swiss Federal Institute of Technology of Lausanne, Switzerland. <ul style="list-style-type: none">Developed strong management skills & ease to explain complex topics to non-specialists.

Education

Jun 2017–May 2021	Doctor of Science (PhD) in Electrical Engineering EPFL (Swiss Federal Institute of Technology Lausanne)
Sep 2015–Feb 2017	Master in Neuroscience (M.Sc.) University of Geneva, Switzerland.
Sep 2010–July 2015	Diploma in Electrical and Computer Engineering, M.Sc. National Technical University of Athens, Greece (5 years integrated master , 300 ECTS)

Awards & Distinctions

- **"Summa Cum Laude Merit Award"**, International Society for Magnetic Resonance in Medicine Annual Meeting 2020.
- **"Best poster presentation award"**, Neuroscience Day (2016) at Campus Biotech, Geneva, Switzerland.

Skills

- **Industry Expertise:** Data Science, Natural Language Processing (NLP), Generative AI, Data Analytics, Data Visualization, Machine Learning (ML/DL/AI), Neural networks, Statistical learning, Statistics, Research, Quantitative Analysis.
- **Interpersonal Skills:** Communication, Collaboration, Teamwork, Critical Thinking, Problem Solving, Supervision, Project Management
- **Data Science & Analysis:** Scikit-learn, Tensorflow, Keras, PyTorch, Numpy, Scipy, Pandas, Plotly, Matplotlib, Tableau, Snowflake, Mixpanel, PySpark
- **Programming Languages:** Python, R, SQL, Bash, MATLAB, Java, Kotlin, TypeScript.
- **Cloud Services & Tools:** Cloud Services: Google Cloud Platform (GCP), Vertex AI, AWS Sagemaker, AWS EC2, FastAPI, Git, GitHub, Snowflake, AWS Athena

Foreign Languages

Greek	Native
English	Proficient
French	Intermediate (B2)

Selected Certifications of Completion

- **Amazon SageMaker Studio for Data Scientists** by AWS ([link](#))
- **Deep Learning with TensorFlow** by DataCamp ([link](#))
- **Deep Learning with PyTorch** by DataCamp ([link](#))
- **Generative AI with Large Language Models** by DeepLearning.ai ([link](#))
- **Introduction to Large Language Models** by Google Cloud ([link](#))
- **Applied Machine Learning in Python** by University of Michigan ([link](#))
- **Neural Networks and Deep Learning** by DeepLearning.ai ([link](#))
- **Statistical Data Visualization with Seaborn** by Coursera ([link](#))
- **Exploratory Data Analysis with Python** by Coursera ([link](#))
- **Using Databases with Python** by Coursera ([link](#))
- **Python, ranking in the Top 10%** by TestDome ([link](#))
- **Snowflake Fundamentals** by Snowflake ([link](#))
- **Snowflake For Data Science** by Snowflake ([link](#))

References

- Submitted with application / Upon request