

Serafeim LOUKAS

Principal Data Scientist



Nationality: **Greek**

DOB: **25/11/1992**

Swiss Work Permit: **Ci**

Marital Status: **Married**

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📖 <https://stackoverflow.com/users/5025009/>

Principal (9+ YoE) Data Scientist with international background and deep knowledge in Machine Learning, Data Science, Predictive modeling, Statistics, GenAI & Agile Project Management. Strong stakeholder management skills. Ranking **#12 all-time respondent** for Machine Learning on Stack Overflow.

Professional Experience

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|-------------------|---|
| Jan 2026–Present | Principal Data Scientist International Air Transport Association (IATA), Geneva, Switzerland <ul style="list-style-type: none">Steering the long-term AI/ML roadmap and architectural strategy for global aviation networks, overseeing the transition of GenAI prototypes to production-grade enterprise solutions. |
| Aug 2024–Apr 2026 | Senior 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 & managing two Data Scientists 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–Jun 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.
- 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 Of Science (Computational 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](#))
- **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](#))
- **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