

# Serafeim LOUKAS

Senior Data Scientist

Nationality: **Greek**

DOB: **25/11/1992**

Swiss Work Permit: **Ci**

Marital Status: **Married**



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<https://github.com/seralouk>

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

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

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

## Education

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- 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

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- **"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

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- **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

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|---------|--------------------------|
| Greek   | <b>Native</b>            |
| English | <b>Proficient</b>        |
| French  | <b>Intermediate (B2)</b> |

## \*Selected\* Certifications of Completion

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- **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

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- Submitted with application / Upon request