TIAGO RODRIGUES DE ALMEIDA

Specialist Data Science & AI Engineering
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English and Portuguese

ABOUT ME

I have a Ph.D. in Computer Science, specializing in machine Learning, with a strong foundation in deep Learning. I am passionate about using AI to drive innovation, and I focus my research on computer vision and time series analysis. I apply techniques such as self-supervised and unsupervised learning and generative modeling to solve problems like image generation and time series forecasting.

github.com/tmralmeida
linkedin.com/in/tmralmeida
tmralmeida.github.io/projects
youtube.com/@tmralmeida96
scholar.google.com/citations?user=ORMNS9kAAAAJ&hl=en

WORK EXPERIENCE

Freelancing, Remote *Oct. 2025 - Present*
AI Consultant

- Help SMEs use their data more efficiently and effectively, and promote innovation.
- Work with data visualization, large vision models, vision-language models, large language models, and ML Ops to deploy data-driven products.

Amazon, Barcelona, Spain *Oct. 2022 - April 2023*
Applied Scientist Intern

- Led the development of transit time estimation models for the EU road transportation network.
- Designed and implemented deep learning models for tabular data, leveraging architectures such as Transformers and ResNets to improve transit-time predictions with quantile distributions.
- Deployed models on AWS, ensuring scalable and efficient real-time inference (beta stage).
- Communicated results to the finance team through Streamlit visualization dashboards.
- Enhanced transportation efficiency and reduced promise delivery time variability, contributing to a € 10M / year business impact.

University of Aveiro, Portugal *Sep. 2019 - Sep. 2020*
Research Fellow

- Built a flexible and low-cost localization and navigation system from scratch.
- Developed detection and decoding methods for static landmarks. Comparative analysis of deep learning-based object detectors processed on NVIDIA Jetson AGX Xavier.
- Used trilateration techniques for self-localization.

Renault, Aveiro, Portugal *July 2018 - Aug. 2018*
Electronics Engineer Intern (Computer Vision)

- Designed and implemented an artificial vision station for quality control in a production line, automating defect detection processes.

EDUCATION

Örebro University and Technical University of Munich (TUM) *Sep. 2020 - Sep. 2025*
Ph.D. in Computer Science (Machine Learning) – WASP Program and Research Stay

- Have shown that semantic attributes enhance trajectory prediction.
- Studied machine learning and deep learning techniques for time series analysis.
- Wrote several scientific publications for international journals and conferences.
- Lab assistant on the Computer Networks course.

University of Aveiro, Portugal *Sep. 2014 - July 2019*
M.Sc. in Mechanical Engineering – GPA: 16/20

- Masters in Robotics and Computer Vision applied to Autonomous Driving (19/20).
- Thesis: Developed a multi-camera and multi-algorithm ROS (C/C++) architecture for visual perception in autonomous systems.

SPECIALIZATIONS

Hugging Face: LLM and Agents Courses *July - Aug. 2025*

Wallenberg AI, Autonomous Systems and Software Program *Oct. 2020 - 2024*

- Deep Learning and GANs
- Learning Feature Representations
- Mathematics and Machine Learning
- Artificial Intelligence and Machine Learning
- Software Engineering and Cloud Computing

Amazon Web Services: AWS Technical Essentials *Nov. 2022*

CS50 from Harvard University: CS50x *June 2020*

NVIDIA: Deepstream for video analytics on Jetson Nano *March 2020*

Coursera *Dec. 2019 - Feb. 2020*

- Deep Learning Specialization
- Applied Machine Learning in Python Course
- Applied Plotting, Charting & Data Representation in Python
- Introduction to Data Science in Python
- TensorFlow in Practice Specialization

ROS Workshop: 25 hours learning Robot Operating System *Feb. 2019*

Wall Street English: First Certificate in English - B2 *Sep. 2019*

EXTRA

- Reviewer on CVPR, ICCV, CoRL, ICRA, IROS, and RA-L *2021-Present*
- BE–Digital Lecturer *2025*
- Think Twice 40 hours programming (Python and C/C++) *2020*