TIAGO RODRIGUES DE ALMEIDA

AI and Robotics, Machine Learning, Data Science

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Portuguese, English

ABOUT ME

Concluding my PhD in Computer Science, specialized in Machine Learning with a strong foundation in Deep Learning. Passionate about leveraging AI for innovation, with a research focus on self-supervised learning and generative modeling for time-series forecasting. Outside of work, I enjoy traveling, exploring diverse cultures, and competitive sports. In addition, I have fun with personal projects in my free time, combining creativity with technical expertise.

github.com/tmralmeida

linkedin.com/in/tmralmeida

tmralmeida.github.io/projects

youtube.com/@tmralmeida96

scholar.google.com/citations?user=ORMNS9kAAAAJ&hl=en

WORK EXPERIENCE

Amazon, Barcelona, Spain *Oct 2022 - Apr 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 € 100M 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 *Jul 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, Sweden *Sep 2020 - May 2025*
Ph.D. Candidate in Computer Science (Machine Learning) – WASP Program

- I have shown that semantic attributes enhance trajectory prediction.

- Studied self-supervised learning, generative modeling, and machine learning techniques.
- Wrote several scientific publications for international journals and conferences.

Technical University of Munich (TUM), Germany *October 2024 - December 2024 Ph.D.*
Research stay at PercInS Chair focused on representation learning.

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.
- Thesis (19/20): Developed a multi-camera and multi-algorithm ROS (C/C++) architecture for visual perception in autonomous systems.

SPECIALIZATIONS

Hugging Face *July 2025*

- LLM Course

WASP PhD courses *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 *Jun 2020*

NVIDIA: Deepstream for video analytics on Jetson Nano *Mar 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 2017 - Sep 2019*

EXTRA

Think Twice 40 hours programming (Python and C/C++) *2020*
Monitor at UA Summer School (Laboratory of Automation and Robotics) *2019*
Sunset Hackathon Participation *2018, 2019*
EBEC Participation *2018, 2019*
4th. place in the ABC – 3D printing competition *2016*