

# TIAGO RODRIGUES DE ALMEIDA

AI and Robotics, Machine Learning, Data Science

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Portuguese, English



## ABOUT ME

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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/tmr.almeida](https://github.com/tmr.almeida)



[linkedin.com/in/tmr.almeida](https://linkedin.com/in/tmr.almeida)



[tmralmeida.github.io/projects](https://tmralmeida.github.io/projects)



[YouTube youtube.com/@tmralmeida96](https://youtube.com/@tmralmeida96)



[scholar.google.com/citations?user=ORMNS9kAAAAJ&hl=en](https://scholar.google.com/citations?user=ORMNS9kAAAAJ&hl=en)

## WORK EXPERIENCE

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### 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

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### Örebro University and Technical University of Munich (TUM)

*Sep 2020 - May 2025*

*Ph.D. Candidate in Computer Science (Machine Learning) – WASP Program and Research Stay*

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

## **SPECIALIZATIONS**

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### **Hugging Face**

*July - Aug. 2025*

- LLM and Agents Courses
- Agents 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**

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BE-Digital Lecturer

*2025*

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*