

Salim Benhamadi *Machine Learning Engineer*

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EDUCATION

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| Master's Degree ICT Internet and Multimedia Engineering , <i>Università degli studi di padova (UNIPD)</i> 🔗 • Principal coursework : Computer Vision, Internet, Game Theory, Internet of Things and Smart Cities, Natural Language Processing. | 10/2023 – 02/2025 Padova, Italy |
| Erasmus+ Student Mobility , <i>Università degli studi di padova (UNIPD)</i> 🔗 • Principal coursework : Machine Learning, Neural Networks and Deep Learning, Reinforcement Learning, Human data analytics, Scientific Computing with Python. | 09/2022 – 07/2023 Padova, Italy |
| ICT Engineer's degree , <i>Higher School of Communications of Tunis (SUP'COM)</i> 🔗 • Principal coursework : Probability, Statistical inference, Algorithmic Foundations of Optimization, Cloud, Big Data, Data Science, Artificial Intelligence. | 09/2020 – 07/2023 Ariana, Tunisia |
| Pre-engineering studies in Mathematics and Physics , <i>Preparatory Institute For Engineering Studies of Nabeul (IPEIN)</i> 🔗 | 09/2018 – 07/2020 Nabeul, Tunisia |

WORK EXPERIENCE

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| Master Thesis Intern , <i>Infineon Technologies</i> 🔗 • Developed an image clustering tool with anomaly detection, significantly reducing data analysis and processing time. • Automated workflows by creating a tool for automatic report generation, improving efficiency and accuracy. • Created a Python library to facilitate the reading and analysis of production data. Keywords : Unsupervised Learning, Anomaly Detection, Dimensionality Reduction, Workflow Automation, Report Generation. | 02/2023 – Present Padova, Italy |
| Research Trainee , <i>University Of Padova</i> • Analyzed head and hand motion data, along with traffic data from VR headset experiments, to predict and identify users across different VR Games. • Conducted comprehensive data preprocessing and feature engineering, achieving model accuracy 95%. Keywords : Supervised Learning, User Identification, Data Preprocessing, Feature Engineering. | 10/2023 – 10/2024 Padova, Italy |
| Data Scientist, Intern , <i>PROROB SRL</i> 🔗 • Analyzed large sets of manufacturing data using Python to identify patterns and trends. • Performed predictive analysis and anomaly detection on Key Performance Indicators (KPIs), identifying potential issues and reducing downtime by 10%. Keywords : Multivariate Statistics, Exploratory Data Analysis, Time Series Analysis, Time Series Forecasting, Anomaly Detection. | 02/2023 – 07/2023 Vicenza, Italy |
| Machine Learning Engineer, Intern , <i>Plexmantic</i> 🔗 • Built an automated system for extracting data from financial statement using OCR. • Prevented manual data entry errors with high quality data extraction on balance sheets. Keywords : Python, Tensorflow, OpenCV, OCR, PaddleOCR, Layoutparser | 06/2022 – 08/2022 Tunis, Tunisia |
| Software Developer, Intern , <i>eDonec</i> 🔗 • Participated in planning, developing, testing, and maintaining an eCommerce website.. • Maintained quality assurance through code testing and cross-browser testing. Leveraged Knowledge : React, CSS/HTML, Redux, Jest unit testing, MongoDB, Bootstrap, NodeJS, ExpressJS | 07/2021 – 08/2022 Tunis, Tunisia |

PUBLICATIONS

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| Movement- and Traffic-based User Identification in Commercial Virtual Reality Applications: Threats and Opportunities , <i>IEEE VR 2025</i> 🔗 Investigated user identification methods in virtual reality through movement patterns and network traffic analysis, examining both security implications and potential applications for personalized VR experiences. | 17/01/2025 |
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AWARDS

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| Ranked 19/365 in Microsoft Learn Location Mention Recognition Challenge , <i>Microsoft, HBKU</i> | 08/2024 |
| Ranked 18/514 in AirQo African Air Quality Prediction Challenge , <i>AirQo</i> | 06/2024 |
| Ranked 14/719 in the Faulty Air Quality Sensor Challenge , <i>UmojaHack Africa 2022</i> | 03/2022 |
| 2nd prize at ML Olympiad - Preserving North African Culture , <i>Google Developers</i> | 03/2022 |
| 2nd prize at GO Data Science (GODS) , <i>IEEE ENSI Student Branch</i> | 02/2022 |
| 1st prize at DevFest21 , <i>Google Developer Groups Carthage</i> | 02/2022 |

SKILLS

Programming

(Proficient) : Python
(Familiar) : C, C++

Database

MySQL, SQL Server, Firebase, MongoDB

Data Tools

TensorFlow, PyTorch, Keras, FastAI, Scikit-Learn,
Numpy, Pandas, Matplotlib, Seaborn,

Soft Skills

Communication, Problem Solving, Teamwork,
Attention to Detail

Machine Learning

Supervised & Unsupervised Learning (Regression,
Classification, Clustering, Anomaly Detection),
Deep Learning (CNN, RNN, ANN,
Transformers), NLP & Large Language Models
(Text Classification, Named Entity Recognition,
Embeddings), Reinforcement Learning,
Optimization (Gradient Descent, Hyperparameter
Tuning)

LANGUAGES

Arabic — Native (C2) • **English** — Full professional proficiency (C1), TOEFL 85/120 point (2023) • **French** — Limited working proficiency (B1)