Joaquín Mir Macias

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EDUCATION

M.Sc. Advanced Artificial Intelligence   **Madrid, Spain**
Universidad Pontificia de Comillas – ICAI   *September 2025 – December 2026*

- <u>Relevant coursework</u>**:** Deep Generative Models, Deep Reinforcement Learning, Geometric Artificial Intelligence, Probabilistic Artificial Intelligence, Probabilistic Methods, …

Bachelor of Mathematical Engineering and AI   **Madrid, Spain**
Universidad Pontificia de Comillas – ICAI   *September 2021 - May 2025*

- <u>Relevant coursework</u>**:** Machine Learning, Differential Equations, Discrete Mathematics, Numerical Methods, Optimization and Simulation, Big Data Architecture, Time Series Forecasting, Deep Learning, Application and service development, Computer Vision, Natural Language Processing, Reinforcement Learning, Cybersecurity, …

Detection of Kidney Tumors and Lesions in CT – Bachelor's Thesis   **Madrid, Spain**
Collaboration with the company SYCAI   *September 2024 – May 2025*

- The project aims to apply advanced Deep Learning and Computer Vision techniques to detect and segment kidney tumors in CT images. It will evaluate and improve various models, comparing their performance to identify the best approach for automated diagnosis using a dataset from SYCAI

WORK EXPERIENCE

Universidad Pontificia de Comillas - ICAI   **Madrid, Spain**
Project Member – SocialTech Challenge   *October 2023 – June 2024*

- Collaborating with Intelligence Systems, the challenge will be to design and manufacture an autonomous wheelchair, using electronic system and Machine Learning

Internship at Redsys – Data Analyst   **Madrid, Spain**
Member of the Data Analyst Department   *June 2024 – August 2024*

- During my internship, I acquired data using Hue, filtered data using relational databases with QlikSense, and created targeted dashboards for data visualization for companies.

Internship BBVA – Internal Audit   **Madrid, Spain**
Member of the Internal Audit   *Febrary 2025 – August 2025*

- Support in the execution of internal audits within the corporate area, participating in the evaluation of key processes, risk and control analysis, as well as the preparation of reports with findings and recommendations. Use of data analysis tools and collaboration with different units to ensure compliance with internal policies and regulatory requirements.

EXTRACURRICULAR ACTIVITIES

English Academy (C1 Level)
English Student

- English Academy: followed a comprehensive study program. During my time at the academy, I successfully reached the C1 level of English proficiency and passed the B2 level.   *2010-2019*
- Official Language Institute: hold the English for Engineers and Communication Skills certificates.   *2010 – 2021*
- TOEFL iBT – High-Intermediate/ Advanced level   *2023 – 202*

Internacional Student Travel Program   **Dublin, Ireland**
English Student   *October 2019*

- Travelled to Dublin for 2 weeks to learn about Irish culture and English language, taking English classes by native teachers.

Student Exchange Hosted
Hosted Student   *March 2019*

- Hosted an American student from Internacional School of Indiana for 2 weeks.

Online Courses   *March 2023*

- Machine Learning – Stanford University / Coursera
- English for Career Development– University of Pennsylvania / Coursera

Technical and Soft Skills

- ✓ <u>Programming languages:</u> Python, R, HTML, JavaScript, React, Django, MATLAB
- ✓ <u>Database management</u>: MySQL, MongoDB, Neo4J, NiFi, Kafka, Kibana, Spark, Hue, QlikSense, Ada
- ✓ <u>Other:</u> MS Office, Power BI, Tableau

- ✓ <u>Languages:</u> Spanish, English (C1/B2)
- ✓ <u>Frameworks:</u> Numpy, PyTorch, OpenCV
- ✓ <u>Soft Skills</u>: communication skills, time management, teamwork, creativity, …