

MIGUEL COZAR

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Highly skilled Data Scientist with experience in research and software development, working in financial services

EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL

July 2023

Master of Artificial Intelligence, GPA 3.75.

Relevant Courses: Natural Language Processing, Big Data Technologies, Deep Learning, Machine Learning, Online Social Network Analysis, Advanced Artificial Intelligence.

- **Yield Engagement Mentor (on-campus job):** coached +10 new students to have a successful academic year at Illinois Tech.

TECHNICAL UNIVERSITY OF MADRID, SPAIN

2017 – 2023

Master & Bachelor of Telecommunication Engineering, GPA 3.61

Relevant Courses: Programming, Software Analysis and Design, Business Administration, Data and Service Centers, Statistics, Algebra.

- **Scholarship Recipient:** Completed Bachelor's final project (Design and Implementation of a Promotional Listening Service) with Speech Technologies Group, experts in Natural Language Processing, resulting in an honors proposal.

EXPERIENCE

Data Scientist

October 2023

ServiceLink Services, LLC.

- Worked in LLMs for document information extraction, automating and standardizing documents for 3000+ U.S counties.

Graduate Researcher: Computer Science Department

November 2021 – July 2022

Technical University of Madrid

- Created and registered a webpage owner identification algorithm: helped to automatically identify hundreds of companies behind domains, including the entire network of subsidiary companies.
- Constructed an anycast IP geolocation algorithm based on network measures utilizing Python.

Software Developer (Intern)

April 2019 – February 2020

INDRA

- Built a Softphone using the SIP protocol and designed a radar emitter generator in Python, helping the company to detect radar signals and its parameters in advance.

PROJECTS

- Developed an automatically deployed AWS hosted currency trading platform with Docker, Terraform and time-series databases (InfluxDB), concluding in a maximum grade.
- Created an Open Source dataset of the US Senate network a deep analysis and description of the current US politic landscape.
- Devised a News Summarizer using BERT LLMs, deployed as a Twitter bot and able to answer user requests on stream.
- Designed and developed "Concierge", a web application for hotel management with React, JavaScript and Java. Product owner in a group of five, following Scrum Agile methodology, resulting in a successful launch.
- Built a song popularity predictor using Keras Neural Networks collaborating with multiple classmates.

PUBLICATIONS

- "Reliability of IP Geolocation Services for Assessing the Compliance of International Data Transfers," EuroS&PW 2022. Presented in Genova and awarded the **Best Presentation of the Day**.
- "Identifying Organizations Receiving Personal Data in Android Apps". SECRIPT 2022.
- "ROI: a method for identifying organizations receiving personal data" Elsevier Computing 2023.
- "Unleashing the Power of Twitter: A Data Analysis of the US Senate with Machine Learning" **ICML 2023**.

SKILLS

- **Technology:** Python (oriented to Data Science: Pandas, Numpy, Keras, TensorFlow, Sklearn, Plotly), Microsoft Excel, Git, Linux, Javascript, React, AWS ecosystem (Spark, Hadoop, Hive), Azure Applications (Form Recognizer, MLFlow), Terraform, Latex, , SQL, Java, time-series, statistics, data visualization tools, Docker, optimization algorithms, agile methodologies, design thinking.
- **Languages:** Spanish (Native), English (Fluent), French (Intermediate).

VOLUNTEER AND LEADERSHIP

LatinXAI: Volunteer Medium Content Creator

December 2022 – Present

- Volunteered and devised personal AI projects and shared the results on the Medium platform. Educated and inspired others in the community to pursue AI careers reaching more than thousand views in the first article. <https://medium.com/@mcozar>.