

# MIGUEL COZAR

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*Highly skilled AI student with experience in research and software development, seeking data-driven roles*

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## EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL

Expected 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.

- **Connect our research Scholarship:** Connected two labs at Illinois Tech and UPM to work together on collaborative research project (DAN Neural Networks for toxicity detection in social media), resulting in the publication of one conference paper.
- **On-campus job as Yield Engagement Mentor:** leadership role assisting 15+ new students integrating to Illinois Tech.

UNIVERSIDAD POLITECNICA DE MADRID, SPAIN

2017 – 2023

### Master & Bachelor of Telecommunication Engineering (ABET accreditation), 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.

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## EXPERIENCE

*Graduate Researcher: Computer Science Department*

November 2021 – July 2022

### Universidad Politecnica de 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.
- Researched privacy engineering methods with a focus on Android mobile applications resulting in two conference papers.

*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.

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## PROJECTS

- Developed an automatically deployed AWS hosted currency trading platform with Docker, Terraform and time-series databases (InfluxDB), concluding in a maximum grade.
- Gathered an open-source dataset of the US Senate Twitter network and performed a deep analysis and description of the current US politic landscape using machine learning topic models.
- Created a News Summarizer using BERT models, 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.

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## 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.
- "A Data Analysis of the US Senate's Social Media Strategy using Unsupervised Machine Learning". LXAI-ICML 2023

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## SKILLS

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

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## 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>.

### Nova Talent Member

June 2023 – Present

- Member of a merit-based access network where the top 3% of talent connect with each other, develop and accelerate their careers.

### Student Athlete and Team Captain (Soccer)

- Player in six different soccer clubs since 2006. Club captain for three years, winning a regional championship during that period.