



# GERARD CARAVACA IBÁÑEZ

## CAREER OVERVIEW

As a Computer Engineering graduate, I recently completed the Master's degree in Artificial Intelligence, a joint program between several prestigious universities in Catalonia, including UPC, UB, and URV. Having achieved this milestone, I am eager to leverage my academic foundation and newly acquired AI expertise to advance my career. My goal is to gain professional experience that aligns with my specialization, enabling me to contribute meaningfully to the field of Artificial Intelligence.

## PERSONAL DATA

**E-mail:** gerardcaravaca@gmail.com

**Telephone:** 682 324 326

**Address:** Barcelona , Spain 08042

**Date of birth:** 12/04/2000

## SOFT SKILLS

- **Highly Adaptable:** Easily adjusts to new environments and teams.
- **Effective Communication:** Excel in clear and collaborative communication.
- **Innate Motivation:** Eager to learn and contribute.
- **Team Collaboration:** Work well in team settings.
- **Responsibility and Organization:** Known for reliability and meticulous organization.
- **Independent Learning:** Self-motivated learner.
- **Problem-Solving:** Create efficient, cost-effective solutions.

**For more information take a look at my [PORTFOLIO](#)**

## JOB SUMMARY

### Research Assistant in deep learning

SISCOM reasearch department of UPC. February 2023.

- Development of deep learning models for the prediction of human activity through movement sensors. With the aim of improving urban mobility in the city of Barcelona.

### Full stack developer intern

Blava, Healthy spaces. February 2022 - June 2022

- Back end and front end development of a website for the management and analysis of environmental data from sensors, for subsequent comparison with the sustainability objectives of miagenda2030.

## ACADEMIC BACKGROUND

### Final thesis in collaboration with Hospital Clínic de Barcelona.

Facultad de Informática de Barcelona, UPC

February 2022 - June 2022

- Development of a system for analysis and representation of cancer and pollution data in Europe.The ultimate intention of the project is to demonstrate that air pollution causes increased lung cancer mortality.

### Master thesis in Transport mode recognition

Facultad de Informática de Barcelona, UPC | January 2024

- This thesis presents a deep learning-based system for detecting transportation modes using smartphone sensors in Barcelona, focusing on algorithm development, data preprocessing, and real-time pattern prediction for urban planning.

### Computer Engineering Degree

Facultat de Informàtica de Barcelona, UPC

September 2018 - June 2022

- High computing modality
- Focus on Artificial Intelligence, Algorithmics, Computer Logic, and Computer Graphics.
- Average mark: 8.15

### Master's Degree in Artificial Intelligence

UPC, UB, URV, Barcelona | September 2022 - January 2024

- Average mark: 8.6
- Focus on Deep Learning

## LANGUAGES

**ENGLISH:** C1 level (CEFR)

**SPANISH:** native language

**CATALAN:** native language

## TECHNICAL SKILLS

- Focused on the use of Python, with knowledge of other languages such as C, C++, Java, R...
- Accustomed to using relational , non-relational databases such as MongoDB and cloud computing.
- Good use of AI libraries like TensorFlow and PyTorch.
- Git knowledge