

# CARLOS CELAYA

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Madrid, Spain

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## BIOMEDICAL ENGINEER STUDENT

I am a biomedical engineer currently specializing in deep learning for audio, video, and signal processing. I bring a multidisciplinary perspective, combining technical expertise with a strong passion for solving real-world challenges.

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## PROFESSIONAL EXPERIENCE

### RESEARCH INTERN

FEB - MAY 2025

Hospital 12 de Octubre, Madrid, Spain

Predicting neoantigen immunogenicity using AI, Developing machine learning and deep learning models, Applying statistical and bioinformatics methods

### CONSULTANT INTERN

AUG - SEPT 2023

Effectia innovation solutions, Madrid, Spain

Developing the value chain, Organ-on-a-chip, Planning the production process, Analyzing various applications for projects, Letter of recommendation

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## EDUCATION

### MASTER'S DEGREE ON DEEP LEARNING FOR AUDIO VIDEO AND SIGNAL PROCESSING

2025 - 2026 (ONGOING)

Autonomous University of Madrid, Madrid, Spain

### BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING

2021- 2025

### UNIVERSITY DIPLOMA IN ENTREPRENEURSHIP, INNOVATION AND TECHNOLOGY TRANSFER

University Francisco de Vitoria, Madrid, Spain

### DEEP LEARNING SPECIALIZATION COURSE

MAY - AUG 2024

Deep.Learning. AI

Computer vision, Optimize and managing neural networks, Advanced sequence models

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## HARD SKILLS

Python (verified by the deep learning course)  
AI and deep learning (verified by the deep learning course)  
Programming in R

## SOFT SKILLS

Initiative  
Team work  
Problem solving

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## LANGUAGES

English - High level

Spanish - Native speaker

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## OTHER RELEVANT INFORMATION

### VOLUNTEERING IN A SOUP KITCHEN

SEPT 2022 – JAN 2023

Tsuneni, Madrid

Preparing and distributing meals, adapting to changing needs, solving logistical challenges

### ADS: EXTRA CHARACTER

Several times among the years

Making off, Madrid