



EUGENIO RODRÍGUEZ RUIZ

STUDENT OF
TELECOMMUNICATIONS
ENGINEERING

CITIZENSHIP

Spanish

INTERESTS

I am interested in new technologies, specifically in artificial intelligence focused on biometrics and image and audio signals processing.

LANGUAGES

- English: Level B2. Cambridge University diploma. Preparing level C1
- French: Level B2. Official french DELF B2 diploma.

SKILLS

- Proactive
- Leadership & teamwork capacity
- Organized
- Resilient
- Agile methodologies

CONTACT INFORMATION

 [Contact](#)

 [linkedin](#)

ACADEMIC BACKGROUND

Degree in Telecommunications Technologies and Services Engineering (2018 - 2023)

- Universidad Autónoma de Madrid
- Image and Sound field
- My average is 7.04/10

WORK EXPERIENCE

Consultant at Management Solutions (September 2023 - Up to now)

Data analytics project based on Python (PySpark library)

Intern Talentum at Telefónica (September 2022 - September 2023)

Project related to network processes automation based on Python

PROGRAMMING

Python avanzado Git Linux
NSO C
MATLAB Yang

ADDITIONAL TRAINING

Course on Data Analytics (2023)

Course on Agile Methodologies and Time Management (2023)

Course on Advanced Python (2022)

Course on Recommendation Systems (2022)

Course on Blockchain at the University of Salamanca (2022)

Course on Python and Artificial Intelligence at the UAM (2022)

ACADEMIC RECORD

Throughout my degree, the courses that have motivated and interested me the most have been those related to image and audio processing and project management.

Course	Average out of 10
Telecommunications Projects and Systems	MH
Digital Signal Processing	8.2
Image and Video Technologies	7.9
Acoustic Engineering	7.5
Visual Signal Processing	7.3
Multimedia Signal Processing	7

PROJECTS

Recognition of digits written by SVM

Group project based on data analysis of written digits images. The aim of this project was to classify the data in the best possible way using Support Vector Machine technology.

Scene recognition with Convolutional Neural Networks

Project developed in Python code based on image analysis from a database of places (parks, kitchens, streets, etc). The aim was to observe the variation of the results depending on different parameters like architecture type, image size, filters size, number of network layers, activation functions, etc.

Final degree project: melanoma detection using Convolutional Neural Networks

The goal of my project is to analyze images of different moles and determine whether it is malignant or benign by using artificial intelligence. I use an ISIC (International Skin Imaging Collaboration) dataset and I try to see the differences between different deep learning architectures. In addition, I conduct a previous study of these architectures and an adaptation to my dataset.

The whole code is developed in Python. Some libraries I have used are: os, PIL, numpy, sklearn, matplotlib, tensorflow, etc.

Telefonica projects

Development of projects related to network processes automation with NSO (Network Services Orchestrator): I have used yang language for service modeling and Python for the logic.

Management Solutions projects

Analysis, design and implementation of a data analytics project developed in Python (PySpark library). From the requirements, the objective is to design the input and output of data with the aim of verifying quality based on defined rules and restrictions. These data are displayed in a visualization portal.