Alejandro Hernández Artiles

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About Me

Creative, dedicated, multifaceted and passionate MSc Computer Science and Engineering Student at Universidad Carlos III de Madrid. Currently working in the design and implementation of the Central Bank of Spain's Digital Transformation Strategy. I have proven experience and deep knowledge in the main fields of Computer Science, but my real love is Artificial Intelligence and Computational Theory, that allow me to dabble into more abstract concepts, where I am able to bring out my full potential. My current objective is to continue learning and researching about these fields before pursuing a Ph.D.

Work Experience

Oct. 2022 – Software Engineer Internship (Dept. of Digitalization and Innovation), Central Bank pres. of Spain. [Link].

Oct. 2021 – **Software Engineer Internship (Dept. of Innovation)**, **Avanade [Link]**. April 2022

Education

2022 - 2023 MSc in Computer Science and Engineering, Universidad Carlos III de Madrid. [Link].

2018 - 2022 BEng in Computer Science and Engineering, Universidad Carlos III de Madrid. [Link].

Skills

- Artificial Intelligence, ML and Deep Learning
- Computational Theory and Optimization
- Genetic Algorithms and Neuroevolution

Computer Skills

o Prog. lang.: Python, Java and C

 Python Frameworks: TensorFlow, NumPy, Scikit-learn, Apache Spark, and PyTorch

O Databases: SQL

Languages

English **full professional proficiency**Spanish **native**

Awards and Grants

2022 Honorable mention in Bachelor's Thesis, Universidad Carlos III de Madrid

2018 – pres. **Tuition-fee Scholarships**, **Spanish Ministry of Education**

Highlighted Projects

- 2022 Bachelor's Thesis: Study and development of the algorithm Neuroevolution of Augmented Topologies in the Pac-man environment, Thesis about the use of evolutionary algorithms to generate artificial neural networks with optimal parameters and topology for solving the game of Pac-man in deterministic and non-deterministic environments.
- 2021 Analysis of USA businesses data (Grade: 10 / 10), Extensive work on data visualization and understanding using Python. A variety of Machine Learning models were used to predict the best position to place a given restaurant .
- 2020 Comparative analysis of Artificial Neural Networks (Grade: 10 / 10), Comparative study between convolutional neural networks and multilayer perceptron for image classification. Python's libraries Tensorflow and Keras were used, among others .