Agustin Nelson Medina Colmenero

Physics Student

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in an-medina   ⤧ My Website

Profile

Passionate and highly motivated physics student with a strong interest in Artificial Intelligence (AI), Data Science, and Web Development. I have a solid academic background in physics, equipping me with analytical thinking and problem-solving skills. I have acquired technical skills in mathematics, programming, and data analysis, and I am eager to apply this knowledge in the fields of AI, ML, Data Science, and Web Development.

Education

2019 – present León, Mexico	**BS. in Physics** *University of Guanajuato* Bachelor's in Physics with active participation in community groups. Member of 'Tacquantum', a Quantum Computing Group. Completed courses in Machine Learning, Data Science, Statistics, and Linear Algebra.
2016 – 2019 San Luis de la Paz, Mexico	**High School Diploma** *University of Guanajuato* High School education with a focus on Engineering and Sciences.

Certificates

- Stanford University & Deep Lerning IA - Advanced Learning Algorithms ⧉
- Stanford University & Deep Lerning IA - Supervised Machine Learning ⧉
- IBM - Data Science ⧉
- AWS Cloud Quest: Cloud Practitioner ⧉
- Serverless Architectures on AWS ⧉

Projects

2023/01 – 2023/06	**Sentiment Analysis via Neural Networks** *A Deep Dive into Sentiment Analysis Using Advanced Neural Network Models* Machine learning model using neural networks to perform sentiment analysis on textual data. The project involved preprocessing data, training the neural network, and evaluating its performance to accurately predict sentiment. This work demonstrated proficiency in machine learning algorithms, neural networks, and data analysis.
2023 – present	**Autonomous Drone Navigation** *Leveraging Reinforcement Learning for Efficient and Intelligent Drone Autopilot Systems* Implemented a reinforcement learning model to autopilot a drone. The project involved designing the learning environment, training the model using reinforcement learning algorithms, and testing the drone's ability to navigate autonomously.

Organizations

2023/08 – present
León, Mexico

TACQuantum
Member
A group dedicated to the exploration and understanding of quantum computing. This involvement demonstrates a keen interest in advanced computing concepts and collaborative learning.

2023/05 – present
León, Mexico

Organized Group of Bachelor's in Physics
Member
Contributed to various academic and community initiatives, enhancing both the learning environment and the broader scientific community

Skills

Python
4 years
● ● ● ● ●

C/C++
4 years
● ● ● ● ○

Machine Learning
1 year
● ● ● ● ○

Objet Oriented Programing
4 years
● ● ● ● ○

Statistics
3 years
● ● ● ● ●

Linear Algebra
4 years
● ● ● ● ●

Structured Programming
4 years
● ● ● ● ●

Cloud Engineering
6 months
● ● ● ○ ○

Participations

2023/11/11

Beepy 3.5 / GitHub Education
Hackday
- Organized and facilitated a 24-hour hackday with over 100 participants.
- Coordinated with sponsors, handled logistics, and resolved technical issues.

2023/11

Qiskit Fall Fest Latino
Quantum Computing Hackathon

2023/10

Nasa Space Apps Challenge 2023
Hackathon

2023/10

Oktoberphysifest 2023
A festival focused on physics and computing, including quantum computing.
- Assisted in organizing talks and workshops that impacted over 3000 participants.
- Collaborated with experts in physics and computing to develop and present relevant and engaging content.

2022/10

Nasa Space Apps Challenge 2022
Hackathon

Languages

Spanish
Native

English
Full working proficiency

German
Elementary proficiency