

JUAN PABLO PÉREZ MONJE

AI Engineer | Data Analyst

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SUMMARY

I am a Bionics Engineer with a robust background in AI, Machine Learning, Computer Vision, and Data Science. My interdisciplinary expertise spans developing machine learning models, autonomous systems, and computer vision solutions, which have been applied in various innovative projects. My combination of skills in engineering, data analysis, and programming allows me to address complex challenges and drive technological advancements in the tech industry.

TECHNICAL SKILLS

- **Python** - 3 years
- **C++** - 1 year
- **Git** - 2 years
- **R** - Less than 1 year
- **MySQL** - 1 year
- **MatLab** - 2 years
- **GitHub** - 3 years

EXPERIENCE

- Jan 2022 - Jan 2023 **Technical Project Manager, CDMX, Mexico** Instituto Politécnico Nacional
| Project on Human Behavior Detection in Surveillance Systems | [Article link](#)
• Coordinated efforts among team members to integrate AI for crime prevention, adhering to AGILE methodologies and conducting regular sprints.
• Designed notification email server and contributed to creating detection and classification algorithms.
Matlab
- Apr 2022 - Oct 2022 **AI Research Analyst, CDMX, Mexico** Center for Innovation and Technological Development in Computing (CIDETEC)
| Social Service Project on Autonomous Drone Navigation |
• Developed and implemented path planning algorithms for autonomous drones in simulated flight environments.
• Processed raw data from images to train AI for biosphere reserve monitoring system.
Linux / ArduPilot / YOLO v3 / Blender
- Jan 2021 - Jun 2021 **Computer Vision Specialist / Technical Lead, CDMX, Mexico** Instituto Politécnico Nacional
| License Plates Recognition System Project | [Project link](#)
• Developed a pattern recognition system to enhance vehicle access control in private parking, focusing on license plate numerical keys.
• Led the project, coordinated team members, and managed development tasks using SCRUM methodology, following sprints to track progress.
Python / Git
- Aug 2019 - Aug 2020 **Machine Learning Research Analyst, CDMX, Mexico** Centro de Investigacion en Computación (CIC)
| Research Fellowship Project on Autonomous Path Planning for Mars Rover |
• Preprocessed and cleansed data from NASA's Curiosity rover for training a machine learning model for automatic path planning.
Python / GitHub

SPECIALIZED COURSES

- May 2024 - Present **Diploma course in Data Science, CDMX, Mexico** Tecnológico Nacional de Mexico
Focused on data science methodologies and tools, with practical training in R.
- Apr 2024 - May 2024 **Diploma course in Artificial Intelligence, Hangzhou, China** INFOTEC-HUAWEI
Specialized training in Deep Learning, NLP, LLM, and Digital Economy.
- Dec 2022 - Jan 2023 **Diploma course in Data Analysis, CDMX, Mexico** SciData
Acquired specialized skills in data analysis using Python, SIUBA, and Plotline.

PROFESSIONAL CERTIFICATES

- Feb 2024 - Feb 2027 **Huawei Certified ICT Associate - Artificial Intelligence** Huawei
| ID: 010102001521809623012377219 |
Certificate verification: [HuaweiTalent.com](#).

EDUCATION

- Feb 2018 - Jul 2023 **Bionics Engineer, CDMX, Mexico** Instituto Politécnico Nacional
GPA: 3.7/4.0
Degree in process
| Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas |

SOFT SKILLS

- Communication
- Adaptability
- Detail focus
- Teamwork
- Time Management
- Self-taught

LANGUAGES

English - B2, Spanish - Native