Mario Rosas Otero

Address: BCN, SPAIN

▶ Phone: (+34) 672365755

▶ Mail: mario.rosas.otero@gmail.com

▶ Github: MarioROT



>>> Personal Goal

As a technologist, I want to continuously expand my theoretical and technical knowledge to deliver high quality solutions. My goal is to contribute to innovative and impactful projects, leveraging my problem-solving skills and creativity to design efficient and scalable code. I strive to stay abreast of the latest technologies and best practices, adopting a collaborative and agile approach. I am a pro-active, communicative, responsible person with leadership skills if needed.

>>> Professional Experience

2023	Data engineer, Sopris Technologies > ETL processes, data visualization and predictive models. Google Cloud Platform. Docker. VMware.
2020	Research Internship, Center for Research in Computing, IPN
	▶ Study of biometric cryptosystems and their adaptation to post-quantum scheme - Python, Matlab
2020	XXX Summer of Scientific Research, Mexican Academy of Sciences
	▶ Preprocessing, feature engineering and classification of images with infected cells of three different types of acute lymphoblastic leukemia Matlab
2018-2020	Research Internship, Institute for Research in Applied Mathematics and Systems, UNAM
	▶ Integration of a human pose detection system to the service robot Golem-III Prolog, C++, Python

>>> Education

2023-2025	Master's degree in Artificial Intelligence, UPC
	Focused on Machine Learning, Computer Vision and Natural Language Processing.
2017-2021	Bachelor's of Science in Technology, FESC, UNAM
	▶ Graduated with honors
	▶ Thesis: Classification of pathologies on chest radiographs using convolutional neural networks.

>>> Courses

2023	Java Full Stack Developer Bootcamp, Generation México. Training on Java, JavaScript, SQL, HTML & CSS for Web Development.
2021	Generative Deep Learning - Creative AI, Actumlogos.
	▶ Neural models to generate faces, paint, write, compose music and play video games Python
2020	Deep Learning for Images, Actumlogos
	Deep Learning to automatically classify, detect, and segment images Python
2019	Sensors, robots, and the human-computer interface, CdCMx
	▶ Summer Program, Science Clubs Mexico Python
2018	Intelligent automata - mechatronics and machine learning, CdCMx
	▶ Summer Program, Science Clubs Mexico Python, Raspberry Pi

>>> Software

Low	▶ Maple, Wolfram Mathematica, Arduino, Prolog, C, React, Spring
Medium	▶ C++, Java, HTML, CSS, SQL, Git, Linux, Julia, Tensorflow, Robot Operative System(ROS)
High	▶ Python, Matlab, LaTeX, Office, Scikit-learn, Pytorch, JavaScript

>>> Languages

Spanish	Native Speaker
English	Intermediate-Advanced (TOEFL Certification)
French	Basic

▶ ▶ ▶ Papers & Conferences 2022 Computing and Systems Magazine ▶ Paper: A New Fuzzy Vault based Biometric System Robust to Brute-Force Attack 2021 IV Student Congress of Artificial Intelligence Applied to Engineering and Technology ▶ Project: Fuzzy Controller for an Automatic Irrigation System 2021 Research in Computing Science Magazine & XIII Mexican Congress of Artificial Intelligence Paper & Presentation: Smart Traffic Light Using Digital Image Processing Controlled by the Rosenblatt's Perceptron. Iberoamerican Canned Satellite Competition - CAELUM Team, PEU, UNAM 2020 ▶ Third place in the challenge organized by UNAM's University Space Program. 2019 II Student Congress of Artificial Intelligence Applied to Engineering and Technology ▶ Project: Improved ASK behavior to enhance human-robot interaction in the GOLEM-III service robot.