David Pérez Carrasco

davidperezzcarrasco@gmail.com | (+34) 628152415 | https://github.com/davidperezcarrasco

Leveraging analytical and critical thinking skills, I develop impactful Machine Learning models through rigorous research, advancing the field of AI. Committed to perfection, I relentlessly pursue optimal solutions. Ambitious, detail-oriented, and determined, driven to excel in AI/ML research at a world-leading company.

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Al & ML Researcher at Universitat Pompeu Fabra Internship Developed a simulator for sequential decision-making problems, enabling the representation of deterministic actions. Implemented state-of-the-art RL in linearly solvable MDPs, benchmarking efficacy against established methodologies in complex decision frameworks.	Barcelona, Spain Jul 2023 - Mar 2024
Education	
Universitat Pompeu Fabra - Mathematical Engineering in Data Science Degree conducted exclusively in English. Grade: 8.63 Honors: Introduction to Programming, Introduction to Network Science, Discrete Mathematics, Data Structures & Algorithms, Object-Oriented Programming, Algorithm Design, Probabilistic Graphical Models, Information and Codification Theory.	Barcelona, Spain Sept 2020 - Jul 2024
Jniversity of British Columbia – Exchange Program 34 th best university worldwide according to 2023 QS ranking and 19 th in Data Science. GPA: 3.6 Courses: Relational Databases (A), Machine Learning and Data Mining (A-), Finding Relationships in Data (A-) and Artificial Intelligence (B).	Vancouver, Canada Sept 2022 - Dec 2022
Academica International Studies - American High School Diploma Graduated with honors. GPA: 3.17 United States History (A), Economics (A), Concepts of Engineering & Technology (A).	Miami, United States Sept 2016 - Jun 2020
Projects	
Deep Learning Meta-model for Anomaly Detection Python (Pytorch, Pandas, Streamlit) Dec 2023
 Developed DI meta model combining multi-sequence LSTMs and Transforme detecting over 50,000 anomalies, saving 1 billion liters of water. 	
SRGAN for Image Super Resolution Python (Pytorch, Numpy) Boosted image quality by 4x and reduced noise through SRGAN implementation.	Jun 2023
Deep Learning for Cryptoanalysis Python (Pytorch, Pandas, Numpy) Decoded corrupted files training and testing CNNs and LSTMs.	May 2023
 Apache Spark for Big Data – Tweets filtering Apache Spark, Maven, AWS (S3 & EMR) Filtered real-time tweets with parallel computation and cloud computing storage. 	Apr 2023
 Relational Database – Football in Data SQL, PHP, JavaScript Developed and deployed a football database alongside public webpages, employing precise SQL queries, PHP scripting, and JavaScript. 	Nov 2022 ng
Machine Learning for Customer Segmentation and BI Python, Excel Prepared IoT data and trained machine learning models for customer identification.	May 2022
Remarkable Activities —————	
Finalist in the 2023 AB Data Challenge Predicting water consumption and detecting anomalies with a DL Meta-Model.	Barcelona, Spain Dec 2023
Contestant at the 2022 IPCP Southwestern Europe Regional Contest Solved several programming problems representing the UPF.	Milan, Italy Apr 2022
Languages	
Spanish (Native), Catalan (Native), English (C1 – Cambridge English February 2022), Fre	nch (Basic).

Honors & Awards

- Academic distinction issued by the Catalan Government for my outstanding results in PAU.
- Placed in the honor roll for my outstanding academic performance in 2018-2019 academic year.