Marçal Herraiz Bayó

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Barcelona, Spain

Physics and Mathematics student at the University of Barcelona, currently in the third year of study. I am highly interested in...

EDUCATION

Present Sep 2020	Bachelor's Degree in **Physics** + Bachelor's Degree in **Mathematics** *University of Barcelona, UB*
Jun 2020 Sep 2018	**Technological** Baccalaureate *Mireia Centre d'Estudis* - 1$^{\text{st}}$-ranked student of the class. - GPA: 4.0/4.0

EXPERIENCE

Sep 2023 Jul 2023	**Summer Research Intern** *Mathematics Research Center, CRM* - Something cool I guess. - Under the supervision of Núria Fagella and Xavier Jarque...
Oct 2019 Jan 2019	Crazy about Physics **Programme** *Catalunya La Pedrera Foundation* - Course aimed at first year A-Level students, with special talent and interest in physics, as an introduction to physics research. - Worked on the LHC's ATLAS detector, accelerator beam physics, observational cosmology, and quantum computing, among others.

ADDITIONAL COURSES

Present Mar 2023	**CS50's Introduction to Computer Science**, HarvardX *C, Algorithms, Memory, Data Structures, Python, SQL, Flask* - Learning by practicing. - Certificate of completion ☑
Jul 2023 Apr 2023	**Python for Data Science and Machine Learning**, Udemy *NumPy, Pandas, Matplotlib, Plotly, Seaborn, SciKit-Learn, TensorFlow* - Implemented various machine learning algorithms, including k-means clustering, linear and logistic regression, random forest and decision trees, support vector machines, and neural networks. - Certificate of completion ☑
Jan 2023	**Machine Learning with Python**, Coursera *Regression, Evaluation Metrics, KNN, Decision Trees, SVM, k-means* - Learned the fundamentals of machine learning and studied different algorithms, such as linear and logistic regression, support vector machines, k-nearest neighbors, and decision trees. - Certificate of completion ☑

Dec 2022 Jun 2022	**100 Days of Code: The Complete Phyton Pro Bootcamp**, Udemy *Data Science, Automation, Game and Web Development, GUI Creation* - Developed proficiency in Python programming language through building 100 unique projects over 100 days, including automation scripts, web and app development, data science and machine learning models. - Certificate of completion ⬈

AWARDS AND ACHIEVEMENTS

Present Sep 2020	**University of Barcelona** *700 €* - Awarded to students with outstanding academic performance during university.
Sep 2021 Sep 2020	**Generalitat de Catalunya** *1,700 €* - Awarded to those students with an excellent academic performance during baccalaureate.

LANGUAGES

Spanish	Native Speaker
Catalan	Native Speaker
English	Advanced C1 Level
German	Elementary Level

CODING SKILLS

Machine Learning	Data Visualization	Seaborn
Python	Scikit-learn	NumPy
HTML	LaTeX	Pandas
CSS	C	

VOLUNTEERING AND ACTIVITIES

- **Science Fellows**: initiative of the Catalunya la Pedrera Foundation to develop science communication activities such as expositions in museums and talks in high schools.

- **Problem Solving**: via books and online resources, solving problems is an activity that I perform, enjoy, and continue to learn on a daily basis.