

Arnau Puche

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EDUCATION

- **Universitat Autònoma Barcelona**
Bachelors degree of Data Engineering (240 ECTS); Avg. Grade: 7.13
Bellaterra, Spain
Sep. 2018 – Present
- **Coursera**
Data Science
Sep. 2020 – Present
 - **IBM AI Enterprise Workflow (4/6):** connecting business priorities to technical implementations.
 - **Neural Networks and Deep Learning:** foundational concept by Andrew Ng.

HACKATHONS

- **NUWE JOBarcelona 2022 Final (7 h)**
Data (teams of 4) - 1st
Camp Nou, Barcelona, Spain
March 2022
Tools: Python, Github (Repo link), Bash, Pytorch, Skiit-Learn, Streamlit, Pandas, XGBoost
Challenge: Predict the fair market value of football players.
 - **Feature Engineering:** Through different techniques and combinations with the columns, we were able to add new variables with a higher correlation.
 - **Multivariant Regression:** We use different ML models with Grid Search to find the best parameters. We also tested with neural networks.
- **NUWE CaixaBank 2022 (14 h)**
Data -
online
March 2022
Tools: Python, Github (Repo link) , Bash, Pytorch, Skiit-Learn, Pandas, XGBoost
Challenge: Modeling a predictive algorithm that allows knowing the future dynamics of the market from the historical data of the value of the IBEX35 and some Tweets.
 - **Sentiment analysis:** Some new columns were added in the market data. One with a median daily tweet sentiment score. Other columns with popularity information in Google Trends.
 - **Time Series Forecasting:** Tested different classification models (up - down) and time series.
- **NUWE JOBarcelona 2022 Classification (1 week)**
Data - Qualified for the final
online
April 2022
Tools: Python, Github (Repo link) , Bash, Pytorch, Skiit-Learn, Pandas
Challenge: Classify insects according to the value of different sensors.
 - **Multivariant Classification:** Neural networks were used.

EXPERIENCE

- **UAB**
Research Assistant
Bellaterra, Spain
Sept 2021 - Feb 2022
Tools: Python, SQL, Bash
 - **Database:** Create a SQL database from biomedical device data.
- **UVE Solutions**
Intern Data Scientist
Manresa, Spain
Feb 2021 - July 2021
Tools: Python, SQL, Bash, Streamlit, Pandas, Bitbucket, Confluence, Jira
 - **Data ingestion:** Build a data ingestion tool (Streamlit App) to perform ETL on different data formats. ML techniques were used to calculate similarity between words.
 - **BI:** Analyze the distribution of the hostelry sector in the Spanish territory.

PROJECTS

- **Flask App:** create a functional app with different databases in the cloud. (Github link)

PROGRAMMING SKILLS

- **Languages:** Python, Javascript, HTML, SQL, R, Bash, C
- **Technologies:** GCP, Docker, Tableau, AWS, Airflow, MongoDB, Pyspark, Flask

LANGUAGES

Catalan: Native

Spanish: Native

English: Professional (B2 Certificate)