Arnau Puche

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EDUCATION

- **Universitat Autònoma de Barcelona** — Bellaterra, Spain
  Bachelor's degree of Data Engineering (240 ECTS); Avg. Grade: 7.13 — *Sep. 2018 – Present*

- **Coursera** — *Sep. 2020 – Present*
  Data Science

  - **IBM AI Entreprise 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)** — Camp Nou, Barcelona, Spain
  Data (teams of 4) - 1st — *March 2022*
  Tools: Python, Github (Repo link), Bash, Pytorch, Sckiit-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)** — online
  Data - — *March 2022*
  Tools: Python, Github (Repo link) , Bash, Pytorch, Sckiit-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 was made by tweet's daily sentiment score. Other columns with popularity information from Google Trends.

  - **Time Series Forecasting:** Tested different Time Series and Classification models (up - down) .

- **NUWE JOBarcelona 2022 Classification (1 week)** — online
  Data - Qualified for the final — *April 2022*
  Tools: Python, Github (Repo link) , Bash, Pytorch, Sckiit-Learn, Pandas
  Challenge: Classify insects according to the value of different sensors.

  - **Multivariant Classification:** Neural networks were used.

EXPERIENCE

- **UAB** — Bellaterra, Spain
  Research Assistant — *Sept 2021 - Feb 2022*
  Tools: Python, SQL, Bash

  - **Database:** Create a SQL database from biomedical device data.

- **UVE Solutions** — Manresa, Spain
  Intern Data Scientist — *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)