

Victor Bouzas Regueira

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SUMMARY

Data Scientist with startup background, research experience and capable of putting machine learning models in production to impact business positively. Solid software engineering expertise and skilled in working with both structured data and unstructured data, such as images (CV) and text (NLP). Growth mindset with ownership and team spirit, seeking new technical challenges in a stimulating environment.

PROFESSIONAL EXPERIENCE

CASAFARI

Lisbon, Portugal

Data Team Lead & Machine Learning Engineer (Jun 2019 – Dec 2020)

Leadership role in the team, being responsible for the technical lead as well as management tasks, such as recruitment, project management and personal development. Implemented many machine learning models in production.

- Improved the model for duplicate listings matching (involving text, images and metadata) and developed a faster pipeline and increasing the accuracy;
- Developed models for extraction of characteristics and types of properties from real estate listings using Natural Language Processing (NLP), including adding support for multi language and decision explainability;
- Implemented an image classification model for real estate photos using deep learning to enhance the data for further processes of the pipeline;
- Worked on the extraction of locations from listings, dealing with geodata;
- Evaluation and development of models for property valuation (AVM);

Data Scientist (Jul 2018 – Jun 2019)

One of the initial members of the Data Science Team in an early-stage startup and could be involved in all steps of the data pipeline.

- Constructed web scrapers for Data Collection, but also developed and implemented metrics, dashboards and alerts for monitoring the quality of the data from more than 5,000 real estate websites, which improved the productivity of other members and increased customer satisfaction;
- Produced real estate data analysis and many reports for important clients;
- Developed monitoring metrics and a improved remuneration system for the crowdsourcing annotators to handle fraud detection;
- Worked with usability data to create an system to prevent customer churn;

Braskem

Bahia, Brazil

Engineering Intern (Jan 2015 – Feb 2016)

Implemented a neural network model using collected sensor data over 3 years in real industrial reactors to solve production monitoring issues regarding the catalytic deactivation over time. Published 2 conference papers as a result.

Procter & Gamble

Newcastle, UK

R&D Summer Intern (Jul 2014 – Sept 2014)

Implemented statistical data analysis with experimental design to solve powder flowability issues on the laundry powder business.

Federal Univ. of Bahia

Bahia, Brazil

Undergraduate Researcher (Jul 2012 – Jul 2014)

Learned the fundamentals of research and developed a Neural Network system for Fault Detection in industrial compressors. As result, gave an award-winning presentation at an student academic research event.

SKILLS

- Fluency in Python and basic knowledge on MATLAB, LaTeX, HTML, CSS and JavaScript.
- Experience with deep learning and classic machine learning models such as logistic regression, KNN, Naive Bayes, SVM, Random Forests, techniques for clustering and other important algorithms such as PCA or model ensembling techniques (bagging and boosting);
- Experience with Python data science libraries, such as *pytorch* (deep learning), *xgboost*, *lightgbm*, *catboost*, *scikit-learn*, *pandas*, *numpy*, *scipy*, *nlTK*, *gensim*, *scrapy*, *beautiful soup*, *h2o*, *optuna*, *hyperopt*, *geopandas* and data visualization with *matplotlib*, *seaborn* and *bokeh*.
- Domain of query languages such as SQL and also basic knowledge of No-SQL (MongoDB).
- Knowledge of development good practices: test-driven and agile development, documentation of model and experiments, CI/CD (Docker, Jenkins) and task automations.
- Team management: planning and leading, code review, mentoring, communication, recruitment.
- Languages: Portuguese (Native), English (Fluent) and Spanish (Basic).

EDUCATION

Federal Univ. of Bahia

Brazil

M.Sc. in Industrial Engineering (2016 - 2018)

Authored 5+ publications in conferences and 4 papers in indexed journals and developed softwares for thermodynamic modeling of oils for academic use.

Newcastle University

England

B.Sc. in Chemical Process & Energy Engineering (2013 - 2014)

Accepted and completed 1 year as Exchange Student funded by the Brazilian Government and achieved First Class Honours (GPA: 3.73).

Federal Univ. of Bahia

Brazil

B.Sc. in Chemical Engineering (2012 - 2016)

Academic performance of 84% and active research participation.