NUNO FERREIRA

FullStack Developer | Data Scientist

932870047

ntrjferreira@hotmail.com

github.com/nuno5645

SUMMARY

Highly motivated and detail-oriented FullStack Developer with a Bachelor's degree in Bioinformatics and an ongoing Master's in Data Science. Currently employed at KPMG as a FullStack Developer and previously at a Genetics Laboratory, where I developed and maintained a data management and analysis application that significantly improved team productivity and revenue. Skilled in a range of programming languages and tools, including Springboot, Django, Dash, and Plotly, with a focus on creating efficient and innovative solutions for data analysis and visualization. Passionate about the field of Data Science and committed to leveraging my skills in machine learning and data analytics to drive organizational success.

EDUCATION

Master's in Data Science

Institution: Iscte – Instituto Universitário de Lisboa
Years: 2023 - Present

Bachelor's Degree in Bioinformatics

Institution: Instituto Politécnico de Setúbal
Years: 2019 - 2022

SKILLS

- Programming Languages
  - Python
  - Java
  - R
  - HTML
  - CSS
  - JavaScript

- Frameworks
  - Django
  - Django Rest Framework
  - SpringBoot

- Data Visualization and Analysis
  - Pandas and PySpark
  - Numpy
  - scikit-learn
  - Dash and Plotly
  - PowerBI
  - Tensorflow
  - Pytorch

- DevOps and Version Control
  - Docker and Docker Compose
  - Git

- Front-end Frameworks and Libraries
  - Vue.js
  - jQuery

PROFESSIONAL EXPERIENCE

FullStack Developer

Centro de Medicina Laboratorial Germano de Sousa | 2022 - 2024

- Actively involved as full-stack developer in the development and continuous enhancement of a software application for data management, analysis, and clinical interpretation.
- Utilized Docker, Django, and PostgreSQL for the application that is currently in production and under ongoing development.
- The application has been pivotal in increasing team productivity and department revenue, reflecting a commitment to efficiency, innovation, and patient-centric care.
- Created Laboratory Metrics Dashboards using Python Libraries such as Dash and Plotly and integrated them into the developed Django Project.

Junior Software Developer

KPMG | 2024 - Present

- Developed and maintained REST APIs using SpringBoot for a medical insurance application.
- Collaborated with cross-functional teams to enhance application features and ensure seamless integration
- Worked in an agile team, participating in sprint planning, daily stand-ups, and retrospective meetings.

ADDITIONAL EXPERIENCE

I am proficient in Python, R, and SQL for data analysis, working extensively with Pandas and PySpark to implement machine learning algorithms for forecasting Laboratory Growth. I have managed PostgreSQL databases and maintained ETL pipelines for genomics data from sources like Clinvar, Ensembl, and dbSNP. I am skilled in data visualization using PowerBI, R, and Python, utilizing PowerBI for complex transformations and visualizations in academic projects.

I have developed deep learning models using TensorFlow and PyTorch, including projects like male beard segmentation in facial images, employing synthetic data from the SAM (Meta) model to emphasize the importance of model selection and dataset quality. Additionally, I created a sentiment analysis framework employing traditional machine learning and advanced deep learning techniques, including tools like TextBlob, Vader Sentiment, Stanza, and models such as SVM, Logistic Regression, and Transformer-XL. I also tested prompt engineering with the ChatGPT 3.5 Turbo API to demonstrate the value of combining preprocessing techniques with various models for improved sentiment classification.