Juan Felipe Rodriguez Granados

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WEB Juan Felipe Rodriguez - Portfolio

Data Scientist currently pursuing a Master's degree in Artificial Intelligence at Universidad de los Andes, Colombia, with a professional background in Petroleum Engineering. Passionate about the world of data and artificial intelligence, with experience in data science and analytics projects, including ETL processes, exploratory data analysis, machine learning modeling, and business intelligence solutions. Specialized in designing dashboards and performing advanced data analysis using Power BI and Power Query. Knowledgeable in implementing machine learning and deep learning algorithms for predictive and classification tasks, and managing relational and non-relational databases. Collaborative and results-oriented, always eager to learn and apply data-driven solutions.

HARD SKILLS

Python, Scikit Learn, TensorFlow, Pytorch, PySpark, PowerBI, Django, SQL, NoSQL, AWS.

EXPERIENCE

- **Data Scientist**   **May, 2024 - Currently**
  Cenyt Engineers and consultant, Bogota, Colombia
  Developed end-to-end data solutions using Python for advanced data wrangling and Machine Learning model implementation. Supported engineering verticals by designing SQL/NoSQL database schemas and integrating them into the Microsoft environment. Created comprehensive Power BI visualization suites to democratize data access and support evidence-based decision-making across the company.

ACADEMICAL PROJECTS EXPERIENCE

- **Advanced Machine Learning & Deep Learning Projects 2025** *Universidad de los Andes, Bogotá, Colombia.*

  Development of multiple AI models applying both classical Machine Learning and Deep Learning techniques:

- **Bicycle Rental Prediction:** Engineered a predictive model to forecast demand and analyze the impact of external variables using Polynomial Regression and Regularized models (**Lasso**) with **scikit-learn**.
- **Water Quality Classification:** Built a multiclass classification system to assess water potability using Decision Trees and K-Nearest Neighbors (**KNN**) algorithms with **scikit-learn**.
- **Medical Imaging (Computer Vision):** Developed a **CNN** (Convolutional Neural Network) architecture using **PyTorch** to classify brain MRI images for tumor detection and disease diagnosis.

- **Scientific Text Analysis (NLP):** Implemented a Recurrent Neural Network (**RNN**) using **PyTorch** to classify and categorize scientific articles based on their abstract content.

- **Group project data flow development with big data and cloud tools 2024**
  Henry Bootcamp, Buenos Aires, Argentina.

  Development of a data pipeline using data storage, processing and analysis tools in Google GCP such as cloud storage, cloud functions, big query among others, in order to create a machine learning model for healthy food recommendations with information reporting. google maps.

- **Individual Project Machine learning operations henry 2023**
  Henry Bootcamp, Buenos Aires, Argentina.
  Development and deployment of a video game recommendation system with data from the Steam platform. Extraction, processing and loading of data to apply a machine learning model.

- **Portfolio web with Django 2024**
  You can find these projects and download my CV in the following link [Django Porfolio (django-portfolio-wyeq.onrender.com)](django-portfolio-wyeq.onrender.com), which directs you to my web portfolio created by me using the Django framework, where I use Python, HTML, CSS and Postgresql.

- **Petroleum engineering degree**
  2021 Universidad de América, Bogotá, Colombia.
  Development of a tool for pipe selection in oil wells using the Excel ecosystem and Visual Basic.

PROFESSIONAL EDUCATION

- Petroleum Engineering, Universidad de América, Bogotá, Colombia. **2021**
- Data Science, Henry Bootcamp, Buenos Aires, Argentina. **2023**
- Artificial Intelligence Master, Universidad de los Andes, Bogotá, Colombia. **2025**

LANGUAGES

- Advanced English
- Native Spanish