Carlos Meneses

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AI Developer | Fullstack Developer

Machine learning engineer with previous background in **full-stack development.** With expertise in technologies such as **Python, Pandas, Numpy, Scikit-learn, Docker, and AWS**, I have successfully developed and implemented machine learning models to solve complex business problems. Recognizing the growing importance of machine learning to drive innovation and decision-making, I made a deliberate shift to specialize in this field. I have invested time and effort in acquiring the knowledge and skills necessary to excel as a machine learning engineer. Throughout my career, I have demonstrated strong problem-solving, critical thinking, and attention to detail. By combining my Fullstack development experience with my Machine Learning expertise, I offer a comprehensive skill set that can contribute to the success of your organization's data-driven initiatives. I am excited about the opportunity to leverage my technical acumen and interpersonal skills to deliver innovative solutions and drive business growth.

Work Experience

Machine Learning Engineer at Anyone AI   Jan 2023 to date

- Developed a **sentiment analysis model** for movie reviews by manipulating non-traditional data, performing preprocessing, normalization, and TF-IDF vectorization.
- Tokenized the reviews and trained a custom word embedding using Word2Vec.
- Achieved an 81% accuracy and an 89% ROC curve in detecting positive and negative opinions.
- Developed a **Machine Learning model for vehicle classification** by training and evaluating different models, including Multi-layer Perceptron, LeNet, and ResNet50, on a pre-built dataset of 196 classes. Achieved an 83% accuracy in predicting the type of car in images, with ResNet50 performing the best.
- Developed a **Machine Learning API system** that receives images, predicts their content using the ResNet50 convolutional neural network model, and achieves a 93% prediction score. Implemented API endpoints, utilized a Redis database, and built the system with Docker and Docker Compose. Conducted stress tests with Locust to assess API capabilities and limits.
- Developed a **credit risk scoring model** by obtaining and analyzing data using specialized libraries (Matplotlib/Seaborn). Preprocessed the data through feature selection, outlier detection/handling, feature imputation/normalization/standardization, and categorical feature encoding. Created a baseline model using randomized search and cross-validation techniques with Scikit-learn in Python, achieving a training ROC AUC score of 74% and a validation score of 70%.
- Built an **ELT Data Pipeline for e-commerce data** from 2016-2018: obtained information from CSV files and APIs, stored it in a database, loaded it into a data warehouse, created SQL queries to extract new data by linking tables, and analyzed the relationship between holidays and purchase order dates using Python and visualization libraries (Matplotlib/Seaborn).

Main Technologies: Python, NumPy, Pandas, Matplotlib, Jupyter Notebook, Scikit-learn, Docker, AWS.

Fullstack Developer at Clear Minds Consultores   Aug 2021 to date
Training company focused on new technologies and certifications. We provide live classes both online and in person.

- Led the migration of internal development tools from **Angular.js** to the latest version, **Angular 15**, ensuring a stable transition by November 2022. Employing **Java** with **Spring Boot** for the backend and Angular for the frontend, we established a robust foundation. Leveraging the capabilities of **AWS** and **Azure** services, the infrastructure was seamlessly deployed.
- Developed solutions based on stored procedures, implementing the entire infrastructure in the **AWS** cloud. I worked in the portfolio team, providing services to Bancolombia and Banistmo. A version of the services was launched in April 2023. In this phase, we used **SQL Server**, **MySQL**, **Java**, **AWS** services and **Azure DevOps**.

Main Technologies: Javascript, Angular, Java, Spring-boot, AWS, Azure DevOps, SQL Server, MySQL.

Skills

Programming Languages: Python, Javascript, Typescript, Java.
Frameworks and Libraries: Angular, Spring-boot, Numpy, Pandas, Matplotlib, Scikit-learn.
Database: SQL Server, Postgres, MySQL.
Cloud: AWS, Azure, Azure DevOps.
Agile Methodologies: Scrum.
Other Tools: Docker, Power BI.
Languages: Spanish: Native, English: Intermediate.

Education

The Central University of Ecuador (in progress)
Computer Engineering

Certifications

Coursera Introduction to Data Science: Statistical Programming with R
Coursera Programming with Java for Android Applications
Platzi Backend Development with Java
SCRUMstudy Scrum Fundamentals
IBM Cognitive Class Python for Data Science
Azure Azure Fundamentals
AWS AWS Cloud Practitioner