Ezequiel Sali

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AI Developer

Machine Learning Engineer with experience in the following stack of technologies, including **Python, NumPy, Pandas, Matplotlib, Jupyter Notebook, Scikit-learn, and Docker.** I have successfully migrated projects to leverage Machine Learning techniques, applying my expertise in developing innovative solutions. In addition to my machine learning skills, I also have over 4 years of experience as a Software Developer. My primary stack includes **Javascript, ReactJS, React Native, Firebase, Expo, Python, and AWS.** I have worked on multiple projects, honing my skills in building robust software solutions. Passionate about technology, I continuously strive to expand my knowledge and stay updated with the latest advancements. My personal and professional goal is to continue growing in my field and bring exceptional value to the companies I collaborate with.

Work Experience

Software Developer at IBM   Jun 2019 to date

- Creation of new functionalities and maintenance of the *Personal Flow* customer management system, specifically the customer service section. The system is called Open a system of Cali, Colombia.
- This is done in PL/SQL, the system is managed this way with procedures and functions in the databases we are modifying.
- Development of functionalities by customer request is then uploaded to Bitbucket which is integrated with Jenkins and then deployed.
- Deploy the code to different environments such as Testing, Pre-Production, Production, or others.

Main Technologies: PL/SQL, Jenkins, Bitbucket, Jira

Software Developer for AI Training at Scale   Oct 2023 to Feb 2024

- Enhanced machine learning models through meticulous dataset development and data labeling, ensuring accuracy and consistency.
- Collaborated with cross-functional teams to optimize and integrate AI models into products and services.
- Utilized advanced programming skills in Python for training AI models.
- Evaluated model effectiveness, identified improvements, and proposed innovative solutions.
- Specialized in adapting models to different prompts for diverse applications.
- Managed confidential projects for prominent clients.

Main Technologies: Prompt Engenieer, Python, Artificial Intelligence (AI), LLM Tools

Machine Learning Engineer at Anyone AI   Jan 2023 to Aug 2023

- 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.

Fullstack Developer as Freelancer   Jan 2023 to Mar 2023

- Development of 2 applications and administrators for a Canadian client, the first one is "Meet Other Travelers", a platform designed to connect travelers from all over the world. This application offers the opportunity to share travel experiences and recommendations of places to visit and build an online community. The other app is "Virtual Food Tours", which helps you find the best restaurants and local dishes while you are on your trip.
- To accomplish this task, several technologies are used, including React JS, which is used to create the administration panels. In addition, a call is made to a database hosted on Firebase to obtain the necessary data. Finally, GitHub with Firebase Hosting is used to deploy the website to the server and allow public access.
- For the development of the applications, React Native will be used together with Expo. In addition, the application will be linked with Firebase to obtain the necessary data. To carry out the deployment of the application in the corresponding stores, Expo will be used.

Main Technologies: Javascript, HTML/CSS, ReactJS, Firebase, GitHub, React Native, Expo.

Fullstack Developer at Color Code Studio   Aug 2022 to Dec 2023

A Mexican company specializing in web and mobile applications development.

- Development of applications for the construction industry in order to upload projects, vacancies, and quotes also has the functionality to connect with other users who can be suppliers, companies, or customers can also find job offers or sell a service through this app.
- This was developed with React Native and Expo. I was calling APIs that were already in a BackEnd using PostMan for testing and looking at the designs in Figma for all the front-end aesthetics.

Main Technologies: Javascript, HTML/CSS, React Native, Expo, PostMan.

Skills

Tech Skills: Javascript, HTML/CSS, React JS, React Native, Python, NodeJS, SQL, NoSQL, Expo, Jenkins, PL/SQL, Firebase, Bitbucket, PostMan, AWS
Other tools: Git, Jira.
Agile Methodologies: Scrum
Languages: Spanish: Native - English: Fluent

Education

UADE   2018 to 2022
Technical degree in software development
Amazon Web Services   2021
AWS Certified Cloud Practitioner