Vamsi Uppuluri

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PROFESSIONAL EXPERIENCE

[Infosys] Bangalore, IN
[Digital Specialist Engineer] 08/2022 – Present

- Developed a **Forecasting model** to predict backend traffic for the next two weeks, deployed using **MLOps** via **Azure ML Studio**, and created **function app** endpoints in **Python** to trigger pipelines, resulting in a **47%** increase in application **scaling efficiency**.
- Resolved bugs related to email features and the **landing page** of the customer service trial in the Dynamics 365 CRM Customer Service Hub, which increased customer page browsing time by **10%.**
- Facilitated team efforts in disintegrating an Omnichannel repository into individual channels and controls by modifying the existing **build pipelines** in **ADO**, enabling the building of individual channels, and generating separate artifacts.
- **Skills used: Typescript, Python, Reactjs, Pandas, MLForecast, scikit-learn, Azure function apps, Azure ML Studio, Azure blob storage, Azure cosmos db, xgboost, statsmodels, ADO**

Technical Skills

- **Programming Languages:** Typescript, Python
- **Frameworks and Technologies:** Tensorflow, Opencv, React, Numpy , Pandas, Next Js, Recoil, Tailwind Css, Expressjs, Nodejs, Prisma, Mongoose, Mongodb, PostgreSql, Sql, Matplotlib, Seaborn, Scikit Learn, Azure
- **Tools and Methodologies:** Github CI/CD, Docker
- **Certifications:** Mathematics for Machine Learning(Coursera), Deep Learning Specialization (Coursera)

PROJECTS

Power consumption prediction time series [Repo] 11/2023

- Developed a time series model to predict the next day's energy consumption based on hourly usage, utilising the XGBoost regressor.
- Initially predicted without a seasonal and trend split, later implementing a seasonal trend multiplicative split to predict the trend with XGBoost and merging seasonality. Implemented rolling training and achieved an RMSE of approximately 2.
- Technologies used: **XGBoost, MLforecast, Pandas, Statsmodels, scikit-learn**

Malaria detection from blood sample [Repo] 06/2024

- Built a CNN model from scratch using TensorFlow to detect malaria-infected blood samples with the LeNet architecture, achieving an accuracy of approximately 90% using both the Sequential and Functional APIs.
- Technologies used: TensorFlow, TensorFlow Datasets, Adam optimizer.

LinearRegression with gradient-descent using only numpy [Repo] 12/2023

- Built a linear regression model from scratch using only NumPy, implementing gradient descent for weight updates during model fitting.
- Performed matrix calculations for predictions and gradient updates with NumPy, while utilising Pandas for data handling and Matplotlib for visualisation.

EDUCATION

MLR Institute of Technology Hyderabad, IN
Bachelor of Engineering **06/2022**
Major in Electronics
GPA:7.5/10

ADDITIONAL INFORMATION

- **Activities:** I have led Knowledge Transfer sessions for my team on Machine Learning, providing detailed explanations of the mathematics and workings of various Machine Learning models.