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Employment

THE MATH COMPANY | DATA ANALYST (Dec 2021-Aug 2023)

HomeDepot Portfolio:

- Developed and maintained interactive dashboards using Tableau for Home Depot's active campaigns.

- Performed data preprocessing and automated insights delivery to streamline client reporting.

- Created a dashboard to track weekly active campaigns and identify delayed campaigns from previous weeks.

- Automated insights generation to enable clients to quickly identify issues and take necessary actions, reducing company costs by **15%.**

- Worked on pipeline automation and deployed solutions on GCP Cloud.

Intern: MATH COMPANY | Ariat

Problem Statement: Develop a **demand forecasting** solution for Ariat to optimize inventory management and reduce costs using historical data.

Project Description: Implemented and compared ARIMA, SARIMA, FBProphet, SARIMAX, and LSTM models to forecast demand based on previous quarters' data for improved inventory management.

AI Intern: (Dec 2023-Present)
Ineuron

Thyroid Detection Classification:
Problem Statement: Thyroid disease affects over one crore people annually in India, impacting metabolism. This project aims to predict whether an individual has compensated hypothyroid, primary hypothyroid, secondary hypothyroid, or no thyroid disorder using machine learning.

Project Description: I evaluated the performance of every model in the thyroid detection project and found that Random Forest performed the best, achieving an impressive accuracy of **96%.** Using built pipelines, the application was deployed on AWS Cloud using Flask framework and GitHub CI/CD, providing a reliable tool for early diagnosis and management of thyroid disorders, improving patient outcomes and reducing healthcare costs.

Tech Stack Used: Python 3, scikit-learn (sklearn), pandas, numpy, matplotlib, seaborn, Evidently, HTML, CSS, Flask framework, Jupyter Notebook, PyCharm, Visual Studio Code (VSCode), MongoDB, Amazon S3, AWS (EC2, ECR), GitHub CI/CD.

Chest-Disease-Classification-from-Chest-CT-Scan-Image:

Problem Statement: Develop a deep learning solution for classifying chest diseases from CT scan images, aiming to accurately identify conditions like pneumonia, lung cancer, tuberculosis, and others.

Project Description: The "Chest Disease Classification from Chest CT Scan Image" project utilizes DVC for version control end-to-end pipelines for workflow automation, and MLflow for model training and selection. Deployed on AWS (EC2, ECR) via GitHub CI/CD, it achieved an accuracy of **88%.**

Tech Stack Used: Flask, DVC, Jupyter Notebook, MLflow, AWS (EC2, ECR), and VSCode, Github (CI/CD).

Education:

- B-tech in **CSE** (Computer Science and Engineering) at Vardhaman College Of Engineering.
  - ❖ Statistics
  - ❖ Mathematics
  - ❖ Python
- Intermediate (Narayana Junior College) – (97%)

Certification:

- [Python for Data Science-Intellipaat](#)

TECHNICAL STACK :

- **DS/ML/AI:** Machine Learning, Deep learning, NLP.
- **ML Framework/Modules:** Sklearn, Pytorch, keras, Numpy, Pandas, Transformers.
- **Mlops tools:** DVC, Mlflow, git actions (CI/CD), Monitoring, Airflow .   .
- **Backend Development:** Flask, Fast Api, Postgresql.
- **Programming and DB Languages:** Python3, Mysql, Mongodb.
- ●**Cloud Based Deployment:** Azure, GCP, AWS , Git, Docker.
- **CI/CD Tools:** Jenkins, Github actions.
- **Visualization Tools:** Tableau, Powerbi .