VIDISH SIRDESAI

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About

An Engineer with an experience of 2+ years, looking for the next challenge. Currently pursuing Masters of Science in Computer Science (AI and ML). Proficient in Data Extraction, Data Cleaning, Data Analysis, Insights Generation, Experiment Planning, Hypothesis Testing, Product Analytics, Feature Engineering, Machine Learning, and MLOps.

Skills

Programming Languages: Python, SQL, C, Bash, HTML, CSS.
Serialization Languages: XML, YML, JSON.
Python Packages: NumPy, Pandas, Matplotlib, Seaborn, SciPy, Sci-Kit Learn, PySpark, MLFlow, RegEx, Flask.
Industry Knowledge: Data Analytics, Data Visualization, Linear Algebra, Combinatorics, Probability, Statistics, Hypothesis Testing, Product Analytics, Linear Algebra, Calculus, Supervised Learning, Unsupervised Learning, Time Series Analysis, Recommendation Systems, Operating Systems, Web APIs, MLOps, SDLC, STLC.
Tools: AWS, Docker, Git, GitHub, Google BigQuery, Google Colab, JIRA, Jupyter Notebook, MS Office, Tableau, Streamlit, Visual Studio Code, Postman.

Experience

Larsen & Tubro Technology Services, Sep 2021 - Oct 2023

- Engineer, Oct 2022 - Oct 2023
- Consultant, Sep 2021 - Oct 2022

Highlights

- Contributed to Project Celadon, an open-source Android distribution optimized for Intel platforms, enabling Android applications to run in virtual machines and containers.
- Managed the testing life cycle of weekly builds using JIRA for Graphics, Multimedia, Multi Client, Power and Performance (PnP), Thermal, and Stability domains for Android Cloud Gaming Stack running on Client GPUs and Android Stack running on Virtual Machines.
- Created detailed test plans and reports, providing actionable insights to improve application reliability and usability.
- Initiated and led the efforts in recognizing gaps between Manual and Automation Testing related to Multimedia domain.
- Developed on Python based test automation framework for Multimedia and Graphics domains which increased the pass percentage of the test cases by 60% at least.
- Coordinated with cross-functional teams under Agile methodologies, contributing to sprint planning, daily stand-ups, and retrospectives to meet project milestones.

Education

- **Masters in Science (MS)**, Woolf College, 2023 - Present.
- **Post Graduate Diploma (PGD)**, Cranes Varsity, 2020 - 2021.
- **Bachelors in Engineering (B.E)**, Visvesvaraya Technological University, 2014 - 2020.

Projects

1. **Network Anomaly Classifier**
   - **Problem Statement:** Detecting cyber threats in modern networks is challenging due to the ever-growing volume and complexity of network traffic, the emergence of novel attack techniques, and the limitations of rule-based systems in identifying unknown threats. This necessitates a robust and adaptive solution that can continuously learn and adapt to evolving threats in real-time.
   - **Solution:** *https://github.com/vidishsirdesai/network_anomaly_classifier*
   - **Impact:** Implementing ML models for multi-class classification of network connections can significantly enhance network security. By accurately identifying and classifying threats, these models can proactively mitigate cyberattacks, reducing the risk of data breaches and system disruptions, ultimately improving overall network resilience.
2. **Onion Price Predictor**
   - **Problem Statement:** Farmers often face significant challenges in securing fair prices for their produce due to unpredictable market price fluctuations. This uncertainty, driven by factors like demand and supply, hinders their ability to maximize their income and often leads to losses. Access to accurate and timely information about market price trends is crucial for farmers to make informed decisions regarding selling their produce.
   - **Solution:** *https://github.com/vidishsirdesai/onion_price_predictor*
   - **Impact:** Time series forecasting models can predict onion prices in Bangalore, providing farmers with valuable insights into market trends. This information empowers farmers to make informed decisions about planting, harvesting, and selling, ultimately maximizing profits, improving livelihoods, and enhancing the agricultural economy.
3. **Show Recommender**
   - **Problem Statement:** Recommender systems are crucial in today's digital world, helping users discover relevant items like products, movies, or news. These systems, such as collaborative filtering, content-based filtering, and hybrid approaches, aim to personalize user experiences by predicting their preferences.
   - **Solution:** *https://github.com/vidishsirdesai/show_recommender*
   - **Impact:** Item-based collaborative filtering using nearest neighbors and cosine similarity enhances user satisfaction by providing personalized recommendations. This approach increases user engagement, drives business growth through targeted marketing and improved customer retention, and ultimately contributes to a more personalized and efficient digital experience.
4. **Loan Underwriter**
   - **Problem Statement:** Loan underwriting is a crucial but time-consuming process that involves assessing borrower risk. Manual underwriting can be prone to human error and inconsistencies. Automating this process is critical for efficiency and accuracy in the lending industry.
   - **Solution:** *https://github.com/vidishsirdesai/loan_underwriter*
   - **Impact:** Logistic Regression models automate loan underwriting, streamlining the lending process by automating risk assessment and reducing human error. This improves efficiency, consistency, and speed in loan approvals, benefiting both lenders and borrowers by improving access to credit and reducing operational costs.
5. **University Admission Predictor**
   - **Problem Statement:** Predicting university admissions is a complex process often involving manual assessment of various factors by education consultants. This process can be time-consuming, subjective, and potentially biased.
   - **Solution:** *https://github.com/vidishsirdesai/university_admission_predictor*
   - **Impact:** Linear Regression models automate university admissions prediction, providing objective and consistent evaluations. This improves efficiency, reduces bias, and assists students and consultants in making informed decisions. Additionally, the model provides valuable insights into the factors influencing admission chances.