Shreyas Desai

Software Developer/Machine Learning Engineer/Data Engineer portfolio — shreyasdesai3013@gmail.com — +1(201)-492-8801

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Experienced Software Developer, Machine Learning and Data Engineer with 2 years of industry exposure demonstrating expertise in developing efficient and cost-effective APIs, integrating and synchronizing data and conducting collaborative machine and deep learning experiments. Proven skills in data analysis, feature extraction and model training, seeking to apply a diverse skill set and technical proficiency to contribute to innovative projects in a dynamic environment.

Education

Master's in Computer Science, 3.67 B.Tech. in Computer Science, 8.5 Diploma in IT, 81.53 %

Stevens Institute of Technology, September 2023 - May 2025 Department of Technology, SUK, September 2019 - July 2022 BVIT, Navi Mumbai, August 2016 - May 2019

GitHub: shreyas-desai

Skills

- **Programming Languages:** Python, Java, SQL, C++
- Software Proficiency: VS Code, Eclipse IDE, WSL, PyCharm, Anaconda
- Data Analysis: Power BI, Feature Extraction, Data Visualization (MatLAB, MatPlotLIB), Statistical Analysis, Exploratory Data Analysis (EDA), Data Wrangling, Collaboration Tools(Google COLAB, Jupyter)
- ML and Deep Learning: Tensorflow, Scikit-learn, Pandas, Numpy, Decision Trees and Decision Analysis, Predictive Modeling
- Backend Frameworks: FastAPI, Flask, Django, Spring-Boot
- Serverless Technologies: AWS Lambda, GCP Functions

Experience

Software Engineer

Extrapreneurs India Pvt.Ltd, November 2021 - July 2023

- Efficiently designed functional **FastAPIs** for services, including Market Data collection, User Data management and Bulk Data Load by revamping the APIs and making it more cost-effective and reducing the response time by **25%**. Modernized legacy Java APIs based on **SpringBoot** framework by incorporating updates for globalization and localization throughout the system.
- Achieved seamless integration and synchronization of data between PostgreSQL and Salesforce, significantly enhancing
 data accuracy and accessibility. Employed advanced SQL techniques for precise database operations. Successfully utilized
 Salesforce Bulk Data API to orchestrate direct data loading from a third-party site to Salesforce Bulk Object, ensuring
 a robust AWS S3 Bucket backup strategy.

Machine Learning/Data Engineering Intern

SessionAl (previously Zineone), August 2022 - February 2023

- Procured impactful results by delivering targeted recommendations of offers, leveraging **LSTM** models with meticulous hyperparameter tuning. Employed advanced visualization techniques to enhance feature selection, contributing to a more refined and effective user session activity analysis.
- Conducted collaborative experiments on **Google COLAB** and **Jupyter** notebooks, leading to the successful training of numerous deep learning regression models tailored for session-based user data. Evaluated insights derived from resulting metrics, culminating in the strategic deployment of models on **MLFlow** for rigorous testing and merging into production.

Projects

Income Classify

Unveiling Socio-Economic Thresholds, Project

- Successfully applied cutting-edge data mining and knowledge discovery techniques in a project aimed at classifying individuals into distinct salary brackets (<=50k and >50k) based on critical demographic features.
- \bullet The analysis, targeting age, gender, ethnicity, and education, strategically addresses income disparity and contributes valuable insights to promote fair pay practices. Implemented an advanced predictive model using a comprehensive dataset, with an accuracy of 94%, accurately classifying individuals' income levels (0 for <=50k and 1 for >50k) based on demographic features.

PhishURL

URL Security: Phishing Detection Insights, Project

- Lead the "PhishURL" project, meticulously curating a dataset comprising 55% benign and 45% malign URLs to create a robust foundation. Achieved remarkable accuracy rates ranging from 92% to 96% through intensive training of machine learning models, including Random Forest, SVMs, Decision Trees, and Bayesian Networks.
- Translated project success into practicality by developing a user-friendly web application using Flask, enabling instantaneous phishing risk evaluation for submitted URLs.

Petals to the Metal

Kaggle Competition, Code

- Implemented data augmentation techniques to furnish the model with diverse training data, mitigating the risk of overfitting. Conducted comprehensive training on ensemble models and fine-tuned standalone models, systematically assessing and enhancing accuracy.
- Leveraged the MobileNetV2 pre-trained model with 'imagenet' weights, surpassing accuracy benchmarks set by MobileNet, DenseNet201, and VGG19

Natural Language Processing with Disaster Tweets

Kaggle Competition, Code

- Implemented effective data preprocessing strategies to optimize the data for training. Conducted training on distilBERT, a variant of the renowned BERT model.
- Skillfully trained the data on a BERT preset model and BERT preprocessor, featuring a total of 66,955,010 trainable parameters, resulting in an impressive f1-score of 0.9 on the training data and 0.77 on the validation data