PARIN SHAH

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EDUCATION

University of Southern California, Los Angeles

Aug 2021-May 2023

Candidate for Master's in Computer Science (Data Science)

GPA: **4.0/4.0**

Relevant Coursework: Analysis of Algorithm, Foundations of Artificial Intelligence, Data Mining, Applied NLP

Mukesh Patel School of Technology Management and Engineering, NMIMS, Mumbai

Aug 2016-May 2020

Graduated as Bachelor of Computer Engineering with Distinction (Merit List)

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Relevant Coursework: Data Structures, Database Management Systems, Data Warehousing and Mining, Artificial Intelligence, Business Viz

PROFESSIONAL EXPERIENCE

Unity Technologies, SF | Business Intelligence Engineer Intern

May 2022-Aug 2022

- Designed an ETL pipeline in Airflow to identify customers using Unity Ads by combining several datasets.
- Improved overall coverage over previous ETL from 2% to 65% leading to 1Mn+ new customers being identified.
- Identified a 63% increase in revenue attributed to publishers using Unity to build games.
- Refactored and optimized the LookML codebase leading to increased modularity, reduced merge conflicts and over 4x faster content validation times.
- Technologies used: GCP, BigQuery, SQL, Looker, LookML, Apache Airflow, Github.

Limechat, Mumbai | Data Scientist

Jun 2020-Jun 2021

- Devised a tool to label new intents using clustering and active learning reducing manual labeling time by over 60%.
- Conducted A/B test to determine optimal number of products to be displayed. Incorporated the results leading to an increase in sales by 28% on average across companies.
- Designed and implemented an ETL pipeline in python to process and upload over **50,000+** rows of semi-structured data per day from PostgreSQL server to product analytics tool (**Mixpanel**).
- Developed a custom analytics dashboard on Flask and VueJS displaying critical **KPIs** for each client with ability to download standard excel and pdf reports. Integrated caching algorithm using Redis as cache that led to **90%** faster loading times.
- Technologies used: Python, SQL, Mixpanel, Flask, VueJS, Azure, Gitlab, Postgres, Redis.

Birthvenue, Mumbai | Project Intern

Mar 2019-May 2020

- Developed a universal rating platform for all types of cryptocurrencies and tokens available in the market based on financial and non-financial variables to help investors make decisions.
- Designed a regularized regression model display the ratings for 1100+ cryptocurrencies on website.
- Technologies used: Python, Flask, ReactJS, MySQL, AWS.

Oracle Financial Services Software Limited, Mumbai | Research Intern

May 2019-Jul 2019

- Interlinked LDAP server in Kubernetes for authorization purposes. Automated manual formation of access roles in banking systems helping save 10+ hours of work per client.
- Incorporated **OpenID** connect to fetch relevant roles from server. Authorized multiple users by assigning permission to roles with the help of **Role Based Access Control (RBAC)**.

TECHNICAL SKILLS

- Programming Languages and Databases: Python, SQL, SAS, C++, Postgres, Redis, MySQL
- Python Libraries: Matplotlib, Plotly, Pandas, Numpy, Scipy, Tensorflow, Keras, Sci-Kit Learn
- Platforms and software: AWS, GCP, Azure, Apache Airflow, Tableau, Looker, Docker, Kubernetes, CI/CD, Gitlab, Jira, Notion
- Big Data: Hadoop MapReduce, Apache Spark(PySpark), BigQuery
- Web Technologies: Flask, Django, VueJS, ReactJS, D3.js

ACADEMIC PROJECTS AND PAPER

Immersive Visualization in Medical Imaging: Reports 3D (Paper) | Python, Blender, Flask, VTK, Keras

- Constructed a web application to bridge the semantic gap between medical practitioners and laymen by leveraging the use of **Augmented Reality** (AR) as a graphically intensive solution.
- Devised novel algorithm for 3D **volumetric recreation** and **rendering** of organ. Generated 3D file to be viewed in AR.
- Achieved a DICE score of 87% for segmenting HGGs (Brain Tumours) from MRI by applying U-Net CNN architecture.

Review of Credit Card Fraud Detection Techniques (Paper) | Python, Numpy, Sci-Kit Learn

- Implemented Synthetic Minority Oversampling Technique to generate synthetic dataset to improve size of minority class.
- Employed logistic regression to classify transactions and achieved a F1 score of 94%, Recall of 99% and Precision of 90%.
- Analyzed currently existing credit card fraud detection algorithms based on various parameters such as pre-processing, complexity, computation time, accuracy and listed the advantages and disadvantages with a suitable use-case.

Recommendation System | Python, Spark, PySpark

- Designed a hybrid recommender system to predict the ratings by a user for a particular business on Yelp data.
- Achieved accuracy of 97.3% by combining item based collaborative filtering and model-based recommendation systems.

LEADERSHIP AND INVOLVEMENT

- Technical Head, ACM MPSTME Taught in workshops and mentored teams working in the domain of Augmented Reality.
- SAS Certified Associate: Programming Fundamentals using SAS 9.4.