PARIN SHAH

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EDUCATION

University of Southern California, Los Angeles

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

Aug 2021-May 2023

GPA: **4.0/4.0**

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

Aug 2016-May 2020

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

83.5%

PROFESSIONAL EXPERIENCE

Unity Technologies, SF | Data Engineer - Ads Team

Jan 2023-May 2023

- Cloud Cost Optimization -
- Saved \$50K (annualized) through optimizing several pipelines, dashboards, and datasets by refactoring the codebase.
- Extracted asset inventory data using GCloud API to keep track of resource labels over time by designing an ETL pipeline.
- Identified key areas for cost savings and optimizations by developing GCP Cost Reporting dashboards in Looker.
- Revamped and streamlined LookML codebase leading to increased modularity, reduced merge conflicts and over 4x faster content validation times.

Unity Technologies, SF | Data Engineer Intern - Ads Team

May 2022-Aug 2022

Revenue Attribution -

- Discovered 1Mn+ new publishers using Unity to build games and advertising through Unity Ads by consolidating multiple datasets leading to an improved coverage over previous ETL from 2% to 65%.
- Identified a 63% increase in revenue attributed to publishers using Unity to build games.
- Technologies used: SQL, Python, GCP, BigQuery, Looker, LookML, Apache Airflow, Github, Terraform, dbt.

Limechat, Mumbai | Data Scientist

Jun 2020-Jun 2021

- Reduced manual labeling time by over 60% by devising a tool to label new intents using clustering and active learning.
- Increased product sales by 28% on average across companies by incorporating results of A/B test to determine optimal number of products to be displayed.
- Designed 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).
- Ingested data from disparate sources to Kafka and utilized Kafka streams for analytical processing and logging.
- 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 leading to 90% faster loading times.
- Lead entire DevOps initiatives by collaborating cross-functionally with various teams to design and incorporate infrastructure solutions that were used by **35** clients. Designed automated CI/CD pipelines on Gitlab for **100+** cloud servers.
- Setup Azure cluster to deploy horizontally scalable, clustered software using Kubernetes. Launched 50+ cronjobs to automate repetitive tasks.
- Technologies used: Python, SQL, Mixpanel, Flask, VueJS, Azure, Postgres, Redis, Docker, Kubernetes, Grafana, Kafka

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: Apache Spark(PySpark), Hadoop, BigQuery, MapReduce, Kafka
- 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.