ANKUR SHAH

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EDUCATION

University of Houston — **Houston, Texas**
Master of Science in Electrical Engineering **GPA: 3.7** — May 2024

Narsee Monjee Institute of Management Studies (NMIMS) — **Mumbai, India**
Bachelor of Technology in Electronics and Telecommunications **GPA: 3.75** — May 2021

TECHNICAL SKILLS

- **Programming Language**: Python, R, Scala, MySQL, SQL, MATLAB, HTML, PySpark, CSS.
- **Databases:** NoSQL (MongoDB, Cassandra), SQL Server, Oracle, Data Warehouse, SQL Server Analysis Services (SSAS).
- **Data Processing & Analysis Tools**: Tableau, Power Bi, SQL Server Reporting Services (SSRS), Apache Spark MLlib, Excel, NumPy, pandas.
- **Statistical Techniques & Algorithms:** Data Analysis, Data Mining, Machine Learning, Statistical Analysis, ETL/ELT, Data Visualization.
- **Python Package**: TensorFlow, NumPy, SciPy, Pandas, Scikit-Learn, Keras, XGBoost, OpenCV, PyTorch, LLMs, AI.
- **Machine Learning:** Linear/Non-Linear Regression, Logistic Regression, Neural Network, CNN, Natural Language Processing, Random Forest.
- **Microsoft Office 365:** Word, PowerPoint, Excel, Outlook.
- **Cloud Platforms**: AWS.

WORK EXPERIENCE

Student Worker Data Analyst — **Sep 2023 - Present**
University of Houston • Part-time — Houston, TX

- Optimized **SQL queries** for the university admission website, leading to a **50% increase** in upload speed of test scores to the university database, resulting in a more efficient process for student applications.
- Developed and implemented **ETL processes** for data integration, resulting in a **40% reduction** in data processing time and a **20% increase** in data accuracy.
- Captured Missing Student Data from **Amazon Web Services** using **SQL Queries** to Ensure Precise and Comprehensive Student Records for the University Portal.
- Revamped **documentation processes** to streamline troubleshooting of missing transcript errors, resulting in a **20% increase** in team efficiency through **data tracking** techniques and **automated reporting**.

Data Analyst — **Jun 2023 – Aug 2023**
Dog Hugs Cat • Internship — Houston, TX

- Implemented advanced **data visualization** techniques to present **A/B testing** results to cross-functional teams, leading to a **15% increase** in collaboration and alignment on website design decisions.
- Developed advanced predictive **data models** by collaborating with **cross-functional** teams, allowing the company to anticipate market trends with **95% accuracy** and gain a competitive edge in strategic decision-making.
- Developed complex data models using **advanced SQL queries** to extract and analyze data from the **data warehouse**, resulting in a **30% reduction** in processing time and a **15% increase** in data visualization capabilities.
- Identified and analyzed **Key Performance Indicators (KPIs)** during **team meetings**, utilizing statistical analysis to create **data visualizations** on the **PowerBI** dashboard, resulting in a **15% increase** in team productivity.

Data Scientist — **May 2021 – Apr 2022**
Trumen Technologies Pvt. Ltd. • Full-time — Indore, India

- Collaborated with software engineers and data analysts to refine the machine-learning algorithm for **image classification**, resulting in a 10% improvement in accuracy to achieve an impressive **95% success** rate in identifying sensor types.
- Analyzed company databases through comprehensive **business data mining**, identifying pivotal trends and patterns to inform product development strategies, resulting in a **15% boost** in customer satisfaction.
- Executed **data cleaning** and **data profiling** processes on a diverse range of 10,000 unstructured datasets using SQL and Excel, resulting in a **95% improvement** in data accuracy and reliability for advanced analytics projects.
- Collaborated with cross-functional teams to develop and execute a data-driven **Tableau dashboard** highlighting sensor performance, employing statistical analysis techniques to enhance data insights and facilitate decision-making.

PROJECTS

Exoplanet Detection using Machine Learning

- Demonstrated exceptional abilities in conducting in-depth **analyses** of various **Machine Learning** (ML) Algorithms, resulting in the identification of the most accurate model with an outstanding **99% success** rate for exoplanet detection.
- **Compiled datasets** from **PHLEC, Kepler Data set, and TESS** to construct a robust database, facilitating advanced analytics, comprehensive analysis, and sophisticated modeling.
- Utilized advanced **feature engineering** techniques to enhance the performance of the Keplerform ML Algorithm, achieving an unprecedented **93% accuracy** in exoplanet detection.

Hospital Management System

- Developed and applied industry-standard business rules to create a comprehensive and accurate **Data Model** and **Entity-Relationship Diagram** (ERD), demonstrating adeptness in client collaboration and business analytics.
- Implemented **XAMPP server** integration, seamlessly connecting the **front-end** with the **database** and reducing **data retrieval** time by an **impressive 30%**, thereby enhancing overall system performance.
- Designed and implemented data models and optimized data processing workflows, utilizing complex **SQL queries** to extract and analyze data from multiple databases, resulting in a **20% enhancement** in data accuracy and efficiency.