

ANKUR SHAH

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EDUCATION

University of Houston

Master of Science in Electrical Engineering GPA: 3.6

Houston, Texas

May 2024

Narsee Monjee Institute of Management Studies (NMIMS)

Bachelor of Technology in Electronics and Telecommunications GPA: 3.75

Mumbai, India

May 2021

WORK EXPERIENCE

Student Worker Data Analyst

Sep 2023 - Present

University of Houston • Part-time

Houston, TX

- Optimized SQL queries for the university admission website, resulting in a **50% increase in upload speed** of test scores to the university database, enhancing efficiency for student applications.
- Designed and executed ETL processes, leveraging advanced SQL techniques, leading to a **40% reduction in data processing time** and a **20% improvement in data accuracy**.
- Utilized advanced SQL queries to extract Missing Student Data from **Amazon Web Services**, ensuring comprehensive student records for the University Portal.
- Optimized team workflow by 20%** through redesigned documentation processes, employing data tracking techniques and automated reporting for troubleshooting missing transcript errors.

Data Analyst

Jun 2023 – Aug 2023

Dog Hugs Cat • Internship

Houston, TX

- Employed advanced **data visualization techniques**, including **SQL queries**, to present A/B testing results, fostering collaboration and alignment on website design decisions.
- Collaborated with cross-functional teams to develop advanced predictive data models, utilizing SQL queries for data extraction and analysis, resulting in **95% accurate market trend anticipation**.
- Reduced processing time by 30%** and **enhanced data visualization capabilities by 15%** through the development of complex data models using advanced SQL queries.
- Identified and analyzed KPIs in team meetings**, leveraging SQL queries and statistical analysis to create PowerBI data visualizations, resulting in actionable insights for informed decision-making.

Data Scientist

May 2021 – Apr 2022

Trumen Technologies Pvt. Ltd. • Full-time

Indore, India

- Collaborated with software engineers and data analysts to refine machine-learning algorithms for image processing, achieving a **10% improvement in accuracy** and a **95% success rate in identifying sensor types**.
- Conducted comprehensive business data mining using **SQL**, resulting in a **15% boost in customer satisfaction** by identifying pivotal trends and patterns to inform product development strategies.
- Executed data cleaning and profiling processes on 10,000 unstructured datasets using SQL and Excel, resulting in a **95% improvement in data accuracy and reliability** for advanced analytics projects.
- Developed and executed 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

- Achieved a **99% success rate** in exoplanet detection by conducting in-depth analyses of various Machine Learning (ML) algorithms.
- Constructed a robust database by compiling datasets from **PHLEC, Kepler Data set, and TESS**, facilitating advanced analytics and modeling.
- Enhanced Keplerform ML Algorithm's performance to achieve **93% accuracy in exoplanet detection** through advanced feature engineering.

Hospital Management System

- Developed comprehensive **Data Model and Entity-Relationship Diagram (ERD)** using industry-standard business rules, showcasing adeptness in client collaboration and business analytics.
- Integrated XAMPP server, **reducing data retrieval time by 30%** and enhancing system performance.
- Optimized data processing workflows with complex SQL queries, resulting in a **20% enhancement in data accuracy and efficiency**.

TECHNICAL SKILLS

- Programming Language:** Python, R, Scala, SQL, MATLAB, HTML, PySpark, CSS
- Databases:** NoSQL, Data Warehouse, SQL Server Analysis Services (SSAS), SQL Server Reporting Services (SSRS)
- Data Processing & Visualization Tool:** Tableau, Power Bi, Apache Spark, Excel, NumPy, Pandas, Jupyter Notebook
- Statistical Techniques & Algorithms:** Data Analysis, Data Mining, Statistical Analysis, ETL, ELT, Data Visualization, Hadoop
- Python Package:** TensorFlow, NumPy, SciPy, Matplotlib, Scikit-Learn, Keras, XGBoost, OpenCV, PyTorch
- Machine Learning:** Linear\Logistic Regression, Computer Vision, Natural Language Processing, Random Forest, RNN, Artificial Intelligence (AI)
- Cloud Platforms:** AWS, Azure, GCP

CERTIFICATION

- Data Visualization Operating Tableau and Paraview by Hewlett Packard Enterprise Data Science **May 2023**
- Scientific Programming with Python/R by Hewlett Packard Enterprise Data Science **Mar 2023**
- Introduction to Cluster Computing by Hewlett Packard Enterprise Data Science Institute **Oct 2022**