ANKUR SHAH

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WORK EXPERIENCE

Data Analyst **Sep 2023 - Present**
University of Houston Houston, TX

- Optimized SQL queries for the university admission website, resulting in a 50% increase in the 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.
- Orchestrated the execution of complex SQL queries in Amazon Web Services, successfully retrieving missing student data crucial for complete University Portal records, ensuring accurate reporting and analysis.
- Developed a comprehensive documentation process for missing student records, enabling analysis of system performance and identification of areas for improvement, leading to a 15% increase in data accuracy.

Data Analyst Intern **Jun 2023 – Aug 2023**
Dog Hugs Cat Houston, TX

- Spearheaded data analysis using SQL and Power BI to create comprehensive reports on A/B test results for stakeholders; insights led to a 20% increase in user engagement.
- Teamed up 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.
- Identified key trends and insights from the MapReduce analysis of Google Keywords, enabling the development of targeted SEO strategies that led to a 50% improvement in click-through rates on search engine results pages.
- Employed SQL queries and statistical analysis to identify key performance indicators (KPIs) in weekly team meetings, leading to interactive Power BI data visualizations and a 15% increase in actionable insights empowering informed decision-making.

Data Scientist **May 2021 – Apr 2022**
Trumen Technologies Pvt. Ltd. Indore, IN

- Utilized YOLO machine learning algorithm to develop a new object detection model that accurately identified 95% of sensors, improving worker efficiency in selecting the correct leveling sensor for specific locations within containers.
- 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.
- Implemented 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 data analytics projects.
- Examined advanced statistical methods to analyze data from sensors and created a Tableau dashboard, resulting in a 15% rise in operational efficiency and a 20% reduction in maintenance costs.

ACADEMIC PROJECTS

Exoplanet Detection Using Machine Learning

- Engineered a cutting-edge Database for Machine Learning, merging PHLEC, Kepler Data set, and TESS datasets; applied cross-disciplinary tactics to enhance precision and resilience, resulting in a 40% increase in exoplanet detection accuracy.
- Employed various machine learning algorithms to determine the most effective method for exoplanet detection, achieving 99% efficiency, enhancing capabilities and scientific understanding in exoplanetary research.
- Created Keplerformer, a transformer model optimized for time series data, achieving a validation accuracy of 93.3%. This model was tailored to address the specific challenges of time series analysis, enhancing accuracy and performance.

Hospital Management System

- Applied advanced algorithms and techniques to optimize business rules for data modeling, resulting in the creation of a highly efficient relational database system with a 98% decrease in query response time.
- Formulated complex SQL queries to efficiently create a hospital database, allowing for the upload and retrieval of data from the system, contributing to a 40% uptick in data precision and availability.
- Enhanced data retrieval processes by 40% through the development of a seamless integration between the database and frontend using XAMPP, optimizing efficiency and reducing loading times.

EDUCATION

University of Houston **Houston, TX**
Master of Science in Electrical Engineering **GPA: 3.6** May 2024
Narsee Monjee Institute of Management Studies (NMIMS) **Mumbai, IN**
Bachelor of Technology in Electronics and Telecommunications **GPA: 3.55** May 2021

TECHNICAL SKILLS & CERTIFICATION

- **Programming Languages**: Python, R, SQL, HTML, CSS, Scala, Git
- **Databases:** NoSQL, Data Warehousing, MongoDB, Big Data, ETL, ELT, Hadoop
- **Data Processing & Visualization Tools**: Tableau, Power BI, Apache Spark, Excel, Pandas, Jupyter Notebook
- **Python Packages**: TensorFlow, NumPy, SciPy, Matplotlib, Keras, XGBoost, OpenCV, PyTorch, Scikit-Learn
- **Machine Learning:** Neural Networks, Computer Vision, Natural Language Processing, Random Forest, Artificial Intelligence (AI)
- **Cloud Platforms**: AWS
- **Data Visualization Tableau and Paraview** by Hewlett Packard Enterprise Data Science **May 2030**
- **Scientific Programming with Python/R** by Hewlett Packard Enterprise Data Science **Mar 2030**