GRISHMA PATIL

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EDUCATION

Rutgers, The State University of New Jersey Sep 2023 - Dec 2024
Masters in Information Technology and Analytics GPA: 3.7

University of Mumbai Aug 2018 - May 2022
Bachelor of Engineering in Electronics & Communication GPA: 3.4

SKILLS

Languages and Databases: Python (Object Oriented, Functional Programming), R, SQL, Java, C#, JavaScript
Tools and IDE's: Tableau, Microsoft Power BI, MS Excel (Lookups, PowerPivot), Alteryx, AWS, EC2, S3, Azure, Visual Studio Code, PyCharm, Jupyter Notebook, GitHub, Power Automate, Databricks, Jira, GCP
Libraries: NumPy, Pandas, Pytorch, OpenCV, Ggplot, TensorFlow
Key Competencies: Data Warehousing, Data Analytics, Data Visualization, Quality Assurance (QA), Communication Skills, Selenium, Microsoft Outlook, DevOps, Software Development Life Cycle (SDLC), Agile, Airflow, Apache, Snowflake, CI/CD

PROFESSIONAL EXPERIENCE

Rutgers University, Newark, New Jersey Oct 2023 - Present
Data Analyst
- Analyzed information using SQL for extraction and manipulation, ensuring data integrity and data accuracy for various university 10+ departments.
- Applied data quality techniques, including data cleaning, normalization, and validation checks, while conducting manual model quality evaluations with large datasets.
- Collaborated with teams to implement a centralized database system, reducing accommodation request processing time by 40% and improving communication between staff and students.

Cognizant, India Jul 2022 - Aug 2023
Programmer Analyst
- Conducted in-depth data collection and analysis on millions of transactional records from banking applications using SQL, identifying patterns that increased fraud detection accuracy by 30%.
- Created and maintained interactive dashboards in Tableau to track B2B transaction volumes, customer activities, and account balances, improving real-time data access aiding strategic decision-making.
- Utilized Python (Pandas, NumPy) for statistical analysis and data mining, conducting exploratory data analysis (EDA) on large datasets to uncover insights into customer spending behavior and transaction trends.
- Executed extraction and analysis using AWS to transform and load big data, generating reports on transaction times, error rates, and system performance metrics to support compliance and operational excellence.
- Organized and presented data solutions, leveraging data warehouse and data pipeline strategies to identify statistical trends on both regular and ad-hoc bases, resulting in a 25% increase in data-driven decision-making efficiency through effective data models.
- Prioritized low and high-risk findings, providing data-backed recommendations to leadership, facilitating strategic initiatives and operational improvements and conducting User Acceptance Testing (UAT) to ensure data accuracy and relevance.

Cognizant, India Jan 2022 - Jun 2022
Programmer Analyst Trainee
- Automated ETL processes for time sheet data using Alteryx and Power Automate, reducing manual workload by 70% and increasing data processing speed.
- Utilized Hadoop for data warehousing and big data processing, integrating time sheet data from 50 various sources into a centralized data lake, improving data accessibility and management.
- Improved client management by using Power BI to create interactive dashboards and reports for visualizing timesheet data and key performance indicators, offering real-time insights and enhancing transparency, and facilitating results analysis, consolidation, and reporting.

PROJECTS

Database Implementation: Order Processing and Customer Sales Analysis - Designed a solution by implementing a relational database using ER diagrams and SQL to manage order processing and analyze customer sales. Performed an analysis by developing complex SQL queries for data manipulation, generating actionable insights through reports on sales trends.

Analyzing Tennis Grand Slam Trends - Led the initiative to collect and clean historical data on men's singles Grand Slam events from 1968 to 2023. Developed and managed interactive dashboards in Tableau to visualize trends, including player performance, win/loss records, and country-wise distribution of winners.