Nityanand Madpathi

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SUMMARY

- Accomplished Data Analyst and Data Engineer with 4 years of experience in data analysis, data engineering, and cloud computing.
- Proficient in leveraging data to drive insights and decision-making, with hands-on experience in data engineering, cloud, and CI/CD pipelines.
- Skilled in database systems including MySQL, MS SQL, Oracle SQL, PostgreSQL, and NoSQL.
- Strong background in accessing and analyzing data using Excel, Google Sheets, and Microsoft 365, and proficient in visualization tools such as Tableau, Power BI, and Metabase.
- Adept at using a variety of tools and technologies to manage, analyze, and visualize data.
- Experienced in building robust applications with Python and cloud platforms.
- Demonstrated history of providing thorough attention to detail and consistently meeting stakeholder expectations.

SKILLS

- **Programming languages:** Python, Java, C, C++, R, JavaScript, HTML, CSS
- **Databases:** MySQL, MS SQL, Oracle DB, PostgreSQL, Amazon RDS, Aurora, Big Query, Azure SQL Database, Cloud SQL
- **Data Analysis Tools:** Tableau, PowerBI, Metabase, Excel, Google Sheets
- **Data Engineering Tools:** Apache Spark, Hadoop
- **Cloud Platforms:** AWS, Microsoft Azure, GCP

WORK EXPERIENCE

GREAT LEARNING – Hyderabad, India   October 2021 – June 2022
Data Analyst

- Analyzed customer profiles, to identify trends in course enrollments and optimize product monetization, resulting in a 65% increase in course sales.
- Created comprehensive customer breakdowns and generated KPI reports, supporting high-level decision-making by stakeholders and improving strategic planning by 20%.
- Wrote complex SQL queries and Python scripts to extract, clean, and analyze data, ensuring data accuracy and relevance, which improved data processing efficiency by 30%.
- Developed and maintained interactive dashboards using Metabase, Tableau, and Amazon QuickSight, enhancing data visualization and accessibility, which led to a 32% reduction in reporting time.
- Assisted various teams in user engagement, lead generation, and revenue generation by providing demographic-specific data and insights, contributing to a 43% increase in lead conversion rates.
- Generated leads for marketing campaigns by identifying specific user subsets and demographics, facilitating targeted outreach through emails and calls, which boosted engagement by 48%.
- Developed ETL pipelines using Python and AWS Glue to automate data extraction, transformation, and loading processes, improving data accessibility and efficiency by 35%.
- Implemented data integration workflows to consolidate data from various sources (Amazon Redshift, PostgreSQL) into a central data warehouse, ensuring data consistency and availability.
- Utilized Apache Spark for big data processing, enabling the handling of large datasets and complex computations, which improved data processing capabilities.

CAPGEMINI – Bengaluru, India   May 2019 – October 2021
Software Engineer

- Conducted comprehensive analysis of banking products for the Royal Bank of Canada, identifying revenue, expenses, and profitability trends, which improved financial forecasting accuracy by 20%.
- Identified and rectified errors, inconsistencies, and missing values in large datasets using Python and SQL, enhancing data quality and reliability.
- Transformed raw data into formats suitable for analysis using SAS, enabling more effective data-driven decision-making across various departments.
- Analyzed data to identify trends, patterns, and anomalies, providing insights that guided strategic initiatives and improved operational efficiency by 15%.

- Evaluated customer feedback and satisfaction metrics, delivering actionable insights to enhance customer experience and retention rates by 10%.
- Assessed the effectiveness of marketing campaigns using Power BI, optimizing marketing spend and strategies, which increased campaign ROI by 25%.
- Collaborated on the development of data pipelines to support analytics and reporting needs, ensuring timely and accurate data availability.
- Worked within an agile framework to ensure timely delivery of data engineering tasks and responsiveness to changing project requirements.
- Utilized Hadoop and Azure Databricks for big data processing, enabling efficient handling of large datasets and complex computations, which improved data processing capabilities by 25%.
- Created and managed data models to support data warehousing solutions, ensuring data integrity and supporting analytics tasks across the organization.

PROJECTS

City Guide – Research Assistant, Wichita State University
- Developed an innovative mapping system using Bluetooth beacons with Swift, MS SQL, and Azure SQL Database, designed to assist vision and mobility-impaired users in navigating indoor spaces, enhancing accessibility and user experience.
- Built a user interface and mapping system for the campus using OpenStreetMap, MapLibre, and React Native, ensuring seamless data synchronization with the cloud for real-time updates and efficient user management.

Portfolio Project: Data Analytics and Visualization
COVID-19 Data Analysis and Visualization:
- Explored global COVID-19 data through SQL, utilizing joins, CTEs, temp tables, window functions, aggregate functions, creating views, and converting data types.
- Visualized the data using Tableau and created an interactive dashboard.

Data Cleaning and Correlation Analysis in Python:
- Performed data cleaning on raw housing data and transformed it into SQL for enhanced usability in analysis.
- Determined factors affecting gross revenue for movies using correlation analysis in Python, employing libraries such as Matplotlib, NumPy, Pandas, and Seaborn.

Netflix Clone on Kubernetes
- Implemented a full CI/CD pipeline using Jenkins, integrated with SonarQube and Trivy for security analysis, and monitored the system with Prometheus and Grafana. Utilized AWS EC2 for hosting and managed deployments with ArgoCD and Helm.
- Applied cloud automation techniques and DevSecOps methodologies to ensure a secure, scalable, and efficient deployment process.

Stock Market Price Prediction Using LSTM
- Built a machine learning model using the deep learning method LSTM to predict future stock prices.
- Forecasted stock prices for Amazon, Google, and Apple using Python libraries such as NumPy, Matplotlib, Keras, TensorFlow, and scikit-learn.

EDUCATION

Wichita State University, Kansas   **May 2024**
Master of Science in Computer Science, **GPA: 4.0**
CVR College of Engineering, Hyderabad, India   **April 2019**
Bachelor of Engineering in Computer Science, **GPA: 3.62**

CERTIFICATIONS:

AWS Certified Developer, Google Data Analytics, Microsoft Azure az-900, Python, Java Spring Boot.