Milan Prajapati

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SUMMARY: AWS certified Data Engineer with 3+ years of experience | Proficient in Data management, Cloud services, visualization, and Dashboard reporting | Committed to delivering hidden insights from data for business growth and strategy-making | Strong advocate of "Life Long Learning"

EDUCATION

Master of Professional Studies (M.S.), Data Analytics | **Northeastern University** (Vancouver, BC) March 2024
Bachelor of Engineering (B.E.), Computer Engineering | **Gujarat Technological University** (Ahmedabad, IN) June 2021

EXPERIENCE

Nursing Community Assessment Service (NCAS) Vancouver, BC
Data Analyst January 2023 – Current

Data Processing
- Efficiently maintained database of over 50,000 patient examinations, ensuring data security and optimal performance for cloud storage
- Implemented Secure Internet Gateway for Data access on the Cloud and further performed Data ETL (Extract, transform, and load)
- Analyzed data to derive insights and assisted in decision-making processes to improve resource utilization procedures and inventory
- Built responsive dashboard showing key information based on selected time frames, for dynamically comparing monthly & yearly results

Heart Health Prediction Model
- Apply feature selection methods on patient data using Python to identify most relevant aspects that affect health condition of heart.
- Generate prediction model to identify heart diseases using 70% of available data in system and test new model with rest of the database.
- Utilized AIC and BIC comparison to identify perforation of a previously used model, resulting in 23% more accuracy in new model.
- Deployed the finalized model on the cloud, conducted unit testing, and formulated visualization of performance results to show impact.

Northeastern University Vancouver, BC
Instructional and Research Assistant January 2023 – Current

AI-Generated Resume Analysis
- Converted AI-produced JSON data into a structured data frame using AWS Glue, enhancing data usability, and performed hypothesis testing.
- Established a data pipeline, automated data transfer, and managed data for various cloud services, resulting in improved work flow.
- Formulate Utilized natural language processing and semantic analysis through Amazon Sage Maker to provide precise job recommendations by analyzing resumes and job descriptions, resulting in an 82% increase in suggestion accuracy.
- Created a dashboard using AWS Quick Sight to highlight market requirements for different jobs and currently available opportunities.

Starlink Dataset Analysis
- Executed data preprocessing, and cleansing data, eliminating noise from the database, resulting in a 20% reduction in data redundancy
- Computed the ratio of launched to functioning satellites and average life span to optimize resource allocation with an 85% utilization rate
- Specified orbital heights for satellites using historical data and identified ideal range between 800 and 1,200 kilometers for good lifespan.
- Created a detailed report featuring graphs and data visualization to emphasize key findings using Power BI.

Pandavaz Advertising Agency Gujarat, IN
Data Scientist July 2019 – September 2022

Credit Score Analysis and Prediction
- Formulated a credit rating model using banking data and statistical modeling, encompassing 93% of relevant factors that affect credit scores.
- Employed forward and backward model selection to create 12 alternative test models, achieving a 95% diagnostic accuracy.
- Conducted rigorous validation with the remaining test data, refining the model's accuracy with a less than 8% residual value analysis.
- Implemented prediction models to determine the creditworthiness of individuals, facilitating more informed lending decisions.

Supply Chain Analysis
- Collected demand and supply data from Excel, Web and handwrote notes, and compiled Centralized database on AWS Cloud using statistic bucket for data storing and further processing with advanced access policies for data security and integrity.
- Applied time series analysis on collected historical data to predict changes in demand resulting in 78% product availability in the market.
- Created interactive web dashboard using Power BI & Excel to digitally interact with research and findings with visual evidence.
- Led meetings explaining research and fundamentals with stakeholders and delivered a final report with insights, and research evidence

SKILLS

Technical Skills: Python, R, SQL, JavaScript, AWS, Azure, GCP, Prompt Engineering (ChatGPT, Google Bard)
Frameworks: Scikit-learn, Pandas, NumPy, SpaCy, PySpark, Matplotlib, TensorFlow, Beautifulsoup, ggplot2, Shiny
Database & Visualization: MySQL, Oracle, SQL Server, MongoDB, Microsoft Power BI, Microsoft Excel, Tableau, Microsoft Word
Tools: SCRUM (AGILE), Git, GitHub, Docker, Office 365 Suite, JIRA, Slack, Workday, Notion,

COMMUNITY INVOLVEMENT & ADDITIONAL INFORMATION

Certifications: AWS Cloud Practitioner | AWS Data Engineer | Data Engineering-ETL (Extract, Transform, Load) | Tableau for Data Scientists | IBM Data Science | Learn MySQL | Salesforce for admins
Achievements: HackerRank Python Gold Badge | HackerRank SQL Gold Badge
Research Paper: Job Market Analysis of San Francisco, delivering recommendations for economic growth and worker requirement in city
Learnings: AWS Data Analyst | Prompt Engineering | Static Analysis using R | Cloud Engineering | load balancing and auto-scaling of EC2