MEGHNA REDDI

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EDUCATION

New Jersey Institute of Technology, Newark, NJ – Master of Science (M.S.) – Data Science, Concentration in Statistics – GPA: 3.8
Mahatma Gandhi Institute of Technology, Hyderabad, IND – Bachelor of Technology (B.Tech.) – Computer Science – GPA: 3.5

TECHNICAL SKILLS

Dashboard Links: Elections Dashboard 1 , Elections Dashboard 2
Programming Languages: Python | R | SQL | MySQL | MATLAB
Data Visualization & BI: MS Power BI | Tableau | Looker | RStudio | Matplotlib | Seaborn
Cloud & Big Data Technologies: AWS | Microsoft Fabric | GCP | Apache Spark | Hadoop | Databricks | BigQuery | Oozie | HBase
Database & Automation Tools: Oracle | Microsoft SQL Server | Docker | Git | Power Automate | JIRA | Confluence | Agile | Scrum
Certifications: AWS Certified Cloud Practitioner | Generative AI with Large Language Models | Google Data Analytics Professional

PROFESSIONAL EXPERIENCE

New Jersey Equity in Commercialization Collective | Data Analyst Researcher – *Newark, NJ* **01/2024 – 12/2024**

- Enhanced data quality by reducing FPR by 60% in university name identification using regex and fuzzy matching in Python and processing 13GB of USPTO's PatEx data stored in a Microsoft Fabric's Data Lakehouse
- Identified over 3000 male & female inventors using Fabric's Python notebook based on inventor names across 8 NJ institutions
- Increased inventor visibility by 20% by building a Power BI dashboard through Dataflow Gen2, analyzing gender demographics
- Orchestrated a scalable ETL pipeline in Data Factory, streamlining data collection, organization, and transformation for evolving datasets
- Enabled strategic decision-making by using T-SQL within SQL Analytics Endpoint to query patent data, generating actionable insights to non-technical stakeholders of NJECC, supporting women inventors
- Improved record match rate by 11% by automating REST API calls in Data Factory to validate genders using public sources like LinkedIn and university web pages, ensuring higher accuracy for analysis

New Jersey Institute of Technology | Teaching Assistant – *Newark, NJ* **01/2024 – 12/2024**

- Accelerated assignment scores by 15% through 6 lab exercises in RStudio on Convolutional Neural Networks, Data Analysis and Large Language Models (LLMs), using real-world datasets to simulate industry challenges
- Boosted class average by 17% by delivering lessons in Python and MATLAB, providing feedback, and additional course materials to solidify foundational programming and analytical concepts
- Conducted a workshop on data visualization techniques and statistical modeling using Python and R, demonstrating best practices for data cleaning, wrangling, and interpreting complex datasets to derive actionable insights

Zenoti India Pvt Ltd | Operations Data Analyst – *Hyderabad, IND* **07/2022 – 07/2023**

- Improved customer training strategies by designing 10+ KPIs using DAX within Power Query to analyze undertrained customer accounts
- Increased biweekly course completions by 200% by delivering region-specific insights to managers, enabling targeted improvements
- Reduced churn in high-value key accounts by building an intuitive Power BI dashboard (Google Analytics connector) to track go-live activity, churn metrics, and operational KPIs
- Boosted quarterly revenue by $20,000 through data-driven retention strategies that prevented seasonal churn
- Automated weekly employee reports, saved 10+ hours by developing Power Automate flows, to extract, format using Python and HTML
- Bolstered customer onboarding rate by 30% by troubleshooting integration issues via JIRA, managing Northpass & Zenoti University ,and facilitating a seamless transition from legacy systems to Zenoti
- Collaborated with cross-functional Agile Scrum teams to refine user stories and align development with business goals, ensuring timely execution of testing and feature rollouts

Infor India Pvt Ltd | Data Solutions Consultant – *Hyderabad, IND* **04/2022 – 06/2022**

- Reduced manual intervention by 30% by optimizing data migration solutions in Infor LN using SQL, Postman, and CRUD operations, while leveraging Excel VBA macros to automate data extraction and transformation for reporting
- Developed 10+ custom 4GL reports in Infor LN, integrating Pivot Tables and VLOOKUP in Excel to consolidate and analyze supply chain data, reducing stockouts by 15% and improving inventory visibility; Customized ERP workflows to meet client-specific requirements, collaborating with R&D and customization teams to implement tailored data-driven solutions

ACADEMIC PROJECTS

Election Data Visualization and Analysis **10/2024 – 12/2024**

- Transformed a 91,000-row U.S. election dataset into an interactive Tableau dashboard, uncovering insights on voter turnout trends and party victory margins, enhancing understanding of voter engagement and performance
- Designed dynamic complementary visualizations and filters in Tableau, allowing personalized data exploration by state, gender, and year, tripling student engagement and attracting 500+ weekly dashboard views

Time Series Forecasting on Divvy Bicycle Sharing System **10/2023 – 12/2023**

- Developed an ETL pipeline using Spark jobs to preprocess 10 years of ride-sharing data (25M+ records) from an S3 bucket, enabling ride duration prediction and bike allocation optimization
- Performed exploratory data analysis (EDA) with Matplotlib, Seaborn, identifying trends in ride duration, user behavior, and station usage
- Trained and fine-tuned time series models (ARIMA, VAR, Prophet) reducing forecasting error by 20%, improving ride duration prediction accuracy for better resource management
- Deployed models using Docker and established CI/CD pipelines with GitHub Actions, ensuring reproducibility, continuous integration, and automated deployment

AWS Cloud-Based Image Recognition System **10/2024 – 12/2024**

- Optimized object detection and image captioning by implementing parallel processing across two EC2 instances, improving workload distribution and achieving over 90% detection accuracy
- Developed and deployed a scalable image recognition pipeline using AWS S3, SQS, integrating Amazon Rekognition to reduce image processing time by 2 seconds per image, enhancing efficiency and scalability

Wine Quality Prediction using Spark and Docker Deployment on AWS **10/2024 – 12/2024**

- Deployed a 4-node EMR cluster on AWS to process wine quality data, enabling scalable model training and achieving an F1 score of 0.77
- Dockerized the application, reducing deployment time by 40% compared to traditional methods, ensuring faster, efficient model delivery
- Developed a distributed machine learning pipeline in Spark, implementing and evaluating Random Forest, Decision Tree, and Linear Regression to optimize training and model performance