

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

Programming Languages: Python (Matplotlib, Seaborn) | R (Solver, ggplot) | SQL | MATLAB
Statistical Analysis: Regression Analysis | Hypothesis Testing | A/B Testing | Time Series Analysis
Data Visualization & Business Intelligence: Tableau | Power BI | Looker | RShiny | Excel
Mathematical Optimization & Modeling: Sensitivity Analysis | Nonlinear Programming | Mixed-Integer Linear Programming | Transportation, Allocation & Blending Models | Regression & Curve Fitting | Convex & Nonconvex Optimization
Cloud Services & Data Engineering: AWS (Quicksight) | Azure | GCP BigQuery | Databricks | Microsoft Fabric
Databases & Automation: Redshift | Oracle | MS SQL Server | MySQL | Docker | Git | Power Automate | Postman
Project Management: JIRA | Confluence | Agile | Scrum
Certifications: [Google Data Analytics Professional](#) | [AWS Certified Cloud Practitioner](#) | [Generative AI with Large Language Models](#)

PROFESSIONAL EXPERIENCE

- New Jersey Equity in Commercialization Collective | Data Research Analyst – 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, processing USPTO PatEx data (13GB) in Data Lakehouse
 - Identified over 3000 male & female inventors using Fabric Python notebook based on inventor names across 8 NJ institutions
 - Increased inventor visibility by 20% by building a Power BI dashboard using Dataflow Gen2, analyzing gender demographics
 - Built a scalable ETL pipeline in Data Factory, streamlining data collection, organization, and data transformation for evolving datasets
 - Leveraged SQL Analytics Endpoint to generate actionable insights, supporting NJECC stakeholders in decision making
 - Improved data retrieval by 11%, API integration (RestFul web services), validating genders from LinkedIn and university web pages
- New Jersey Institute of Technology | Teaching Assistant – Newark, NJ** **01/2024 – 12/2024**
- Progressed assignment scores by 15% through 6 lab exercises in RStudio on CNNs, Data Analysis and Large Language Models (LLMs)
 - Conducted a data visualization & statistical modeling workshop using Python, teaching data wrangling and interpretation practices
- Zenoti India Pvt Ltd | Data Analyst – Hyderabad, IND** **07/2022 – 07/2023**
- Improved customer training strategies by designing 10+ DAX KPIs in Power Query to analyze undertrained customer accounts
 - Increased biweekly course completions by 200% by delivering region-specific insights to PMs, enabling targeted improvements
 - Reduced churn by 12% in key accounts by developing a Power BI dashboard (Google Analytics connector) to monitor customer activity, churn rates, and revenue trends; Boosted quarterly revenue by \$20,000 via data-driven retention strategies preventing seasonal churn
 - Saved 10+ hours by developing Power Automate flows, to extract and format employee reports weekly using Python and HTML
 - Developed 10+ custom reports in Excel, leveraging Pivot Tables and VLOOKUP to analyze business performance metrics
 - Collaborated with cross-functional Agile Scrum teams to refine user stories, align development with business goals, ensuring timely execution of testing and feature rollouts

ACADEMIC PROJECTS

- Election Data Visualization and Analysis ([Elections Dashboard 1](#) , [Elections Dashboard 2](#))** **10/2024 – 12/2024**
- Built an interactive Tableau dashboard analyzing U.S. election data (5 GB) stored in AWS Redshift, uncovering voter turnout trends
 - Designed complementary visualizations and filters in Tableau, allowing data exploration by state, gender, and year
 - Tripled student engagement, attracting 500+ weekly dashboard views, increasing political awareness among students
- Time Series Forecasting & Analysis on Divvy Bicycle Sharing System** **10/2023 – 12/2023**
- Designed an ETL pipeline using AWS Glue to preprocess 25M+ records stored in S3 data lake optimizing data transformation
 - Performed exploratory data analysis (EDA) using Athena, visualizing ride duration and user behavior trends With QuickSight
 - Trained and fine-tuned time series models (ARIMA, VAR, Prophet) on AWS SageMaker reducing forecasting error by 20%, improving demand prediction and resource management
 - Deployed models using Docker and established CI/CD pipelines with GitHub Actions, ensuring reproducibility & continuous integration

BUSINESS ANALYTICS & OPTIMIZATION CASE STUDIES

Coastal Telephone Company – Revenue Maximization

- Developed a nonlinear pricing model to optimize calling rates, increasing total revenue by 10%
- Formulated demand functions based on historical data and used curve fitting techniques in R
- Applied Solver's optimization to maximize total revenue, adhering to demand elasticity constraints

Veerman Furniture Company – Profit Maximization & Resource Allocation

- Optimized production strategy to maximize profits, increasing by \$2500, considering production constraints for furniture
- Built a production model to determine optimal supply using Solver; Conducted sensitivity analysis to assess profitability vs availability

Diaz Coffee Company – Blending Optimization

- Curated a cost-effective coffee blend, reducing production costs by \$3.50 per pound, maintaining aroma and strength standards
- Applied proportional blending constraints and found the optimal mix using linear programming; Understood supply-chain limitations to optimize sourcing costs while preserving quality; reduced production time per batch by 1.5 hours, improving overall blending efficiency