Teja Babu Mandaloju

Denton, TX 76207 | 940.758.3312 | teja.mandaloju1512@gmail.com | LinkedIn | GitHub

CAREER SUMMARY

Motivated Data Science master's student at the University of North Texas with 2 years of IT experience as a data analyst at Tata Consultancy Services (TCS). Possessing a solid foundation in data engineering principles, data analytics, and programming. Proficient in Python and SQL, with a strong focus on data pipeline development, big data tools, and database management. Experienced in building scalable data solutions, analyzing complex datasets, and delivering actionable insights for strategic decision-making. Seeking a Data Engineer Intern position to leverage technical skills and contribute to data-driven initiatives in a dynamic environment.

EDUCATION

University of North Texas | Denton, TX   Expected: Dec 2025
Master of Science – Data Science   GPA: 4.0
Relevant Coursework: Data Visualization, Data Analytics, Data Mining, Machine Learning, Data Modeling, Natural Language Processing, Deep Learning

VNR VJIET | Hyderabad, India   Aug 2021
Bachelor of Technology – Electrical & Electronics Engineering

TECHNICAL SKILLS

Data Analytics Algorithms: Linear Regression, Logistic Regression, K-Mean, KNN, Neural Network
Deep Learning: Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN)
Software: SAS, Tableau, TensorFlow, PyTorch, MySQL, SQL, Hadoop, Microsoft Office Suite (Excel)
Programming Languages: Python, R (Intermediate), MATLAB, C#, SQL
Project Management: Agile, DevOps
Certifications: Azure Fundamentals (AZ-900), Azure AI Fundamentals (AI-900), Azure Data Scientist Associate (DP-100)
Others: Cloud Computing, Visual Studio, Git, BigQuery

DATA DRIVEN PROJECTS

Analyzing Traffic Fatalities Using Google Cloud and Big Data Tools
- Built a scalable Dataproc cluster on GCP, processing over 500,000 records of traffic fatalities, improving data processing efficiency by 40% using Big Query and Cloud Storage
- Performed data cleaning using OpenRefine, reducing data inconsistencies by 15%, removing duplicates, and resolving 23 null values, ensuring data integrity for analysis
- Executed queries in Apache Hive and Spark SQL, achieving a 60% reduction in query runtime with Spark, improving data retrieval speed from 14.2s to 8.6s on average.
- Analyzed the impact of weather and lighting conditions on traffic accidents, providing insights that identified rain and darkness as key factors, influencing safety measures for a 5% reduction in traffic fatalities.

Data Analysis and Process Optimization for Business Insights
- Optimized SQL queries on 1,000+ orders and $125M+ revenue, identifying a 64% drop in orders and 59% decline in revenue, driving recovery strategies
- Analyzed 1,000+ customer feedback, revealing a 20% rise in negative ratings, leading to a 15% improvement in "very good" ratings in the next quarter
- Cleaned datasets with SQL, fixing 33% of inconsistencies and null values, improving business report accuracy
- Identified a 33% increase in shipping delays, implementing solutions that cut delays by 10%, enhancing customer satisfaction

Predicting Revenue of Higher Educational Institutions using ML models
- Predicted revenue with ML, achieving a top R2 score of 0.9 using Gradient Boosting
- Executed data preprocessing: handling missing values, outliers, and scaling
- Evaluated models including Linear Regression, KNN and Gradient Boosting using MSE, MAE and R2 metrics
- Identified key revenue drivers like student enrollment and grant aid to aid financial planning

EMPLOYMENT EXPERIENCE

*Graduate Assistant***, UNT Welcome Center** | Denton, TX   Mar 2024 – Present
- Generate weekly visitor reports using Python, Excel and Salesforce, improving data accuracy and tracking
- Lead in-person, virtual, and group tours for prospective graduate students
- Evaluate tour success and train Eagle Ambassadors, supporting team development

*Research Assistant***, UNT** | Denton, TX   May 2024 – Jun 2024
- Improved SRS accuracy by 15% and tokenization efficiency by 10% through optimized prompt engineering with GPT-4, Llama 3, and GitHub Copilot
- Achieved 25% higher SRS completeness with Llama 3 compared to GPT-4 and Copilot in performance tests
- Automated SRS generation, reducing human error by 20% and increasing development efficiency

*Data Analyst***, Tata Consultancy Services Ltd** | Hyderabad, INDIA   Nov 2021 – Dec 2023
- Developed comprehensive dashboards using Tableau, resulting in a 20% improvement in user efficiency and a 15% increase in engagement metrics.
- Created insightful visualizations to facilitate effective communication with non-technical stakeholders
- Played a key role in maintaining data pipelines to ensure seamless data flow
- Contributed meaningfully to data driven decision making processes within the organization

INTERNSHIP EXPERIENCE

Larsen & Toubro Infotech | Hyderabad, INDIA   Sept 2021 – Nov 2021
Computer Network Intern: Received training on operating systems, acquired knowledge in cloud computing

Infobridge | Hyderabad, INDIA   Jan 2021 – Mar 2021
Marketing Research Intern: Carried out quantitative research and data analysis, gathering and structuring market data using Excel features such as VLOOKUP & pivot tables

Smartbridge | Hyderabad, INDIA   May 2020 – Jun 2020
IoT Intern: Designed and implemented an IoT application titled "Smart Agriculture System based on IoT" for farmers

LEADERSHIP & STUDENT ORGANIZATIONS

UNT Data Science Organization   Jan 2024 – Present
UNT Business Analytics Club   Feb 2024 – Present

AWARDS & SCHOLARSHIPS

Excellence in Innovation Award – T-Hub & Hiroshima Prefecture Japan   Feb 2020
NSF Scholarship Award   Feb 2018
TS E-Pass Scholarship Award   Jun 2017

HOBBIES/VOLUNTEER EXPERIENCE

Travelling, Reading, Mentoring, Programming, Blogging