

MOHAN S

Data Analyst · BI Specialist

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PROFESSIONAL SUMMARY

B.Tech CSE (2026) graduate with hands-on expertise in SQL, Python, Machine Learning, Tableau, Power BI, and Excel. Delivered 6+ end-to-end analytics projects across healthcare, banking, HR, and finance — including fraud detection (XGBoost/SHAP, 98.2% accuracy), customer churn prediction (Scikit-learn, 87.4%), NLP sentiment analysis, and KPI dashboards. Completed a 240-hour internship, 5 industry simulations (JPMorgan, Tata, Deloitte, Quantum), and holds 10+ certifications from IBM and Microsoft.

TECHNICAL SKILLS

Languages: Python · SQL (MySQL)

Data Analysis & Cleaning: Pandas · NumPy · Matplotlib · Seaborn · Plotly · Microsoft Excel · Data Wrangling · Data Cleaning

ML Libraries: Scikit-learn · XGBoost · LightGBM · SHAP · SMOTE

Visualization & BI: Tableau · Power BI · Google Looker Studio · Streamlit

Database: MySQL · MySQL Workbench

Tools & Platforms: Git · GitHub · Flask · Jupyter Notebook · Google Colab (Cloud)

Analytics: EDA · KPI Development · Data Modeling · ETL · Statistical Analysis · NLP · Stakeholder Reporting

EXPERIENCE

SmartBridge Educational Services Pvt. Ltd — Data Analytics Intern

Oct 2025 – Mar 2026

Virtual | 240-hour Long-Term Internship | APSCHE–JNTUA Collaboration

- Completed a 240-hour structured internship on Data Analytics with Tableau, covering end-to-end data analysis workflows, dashboard creation, and stakeholder reporting.
- Applied EDA, KPI development, and data visualization techniques to real-world datasets across multiple business domains using Python and SQL.

CODTECH IT Solutions — Python Programming Intern

Aug – Oct 2025

Remote

- Developed Python scripts for data processing and automation; built reusable utility modules for file I/O and data transformation pipelines, reducing repetitive code by ~40%.
- Strengthened proficiency in data wrangling, scripting, and code structuring following software engineering best practices.

CODTECH IT Solutions — Full Stack Web Development Intern

Dec 2024 – Jan 2025

Remote

- Built and deployed web application features with responsive UI components and RESTful API integration; improved cross-device load consistency by 30%.

PROJECTS

Customer Churn Prediction & Risk Segmentation |

github.com/smohan-21/customer-churn-prediction-and-risk-segmentation Python · Pandas · NumPy · Scikit-learn · Matplotlib

- Built an ML pipeline to predict high-risk customers with 87.4% model accuracy; enabled proactive retention strategies through multi-segment risk scoring and EDA on 10,000+ records.
- Performed feature engineering, data cleaning, and model evaluation (Random Forest, Logistic Regression) using Google Colab; documented findings for stakeholder reporting.

Fraud Detection System with Explainable AI | github.com/smohan-21/fraud-detection-system-with-explainable-ai Python · XGBoost

· LightGBM · SHAP · SMOTE · Flask

- Achieved 98.2% fraud detection rate on highly imbalanced transaction data using XGBoost and LightGBM with SMOTE; integrated SHAP explainability for regulatory transparency.
- Deployed the end-to-end ML pipeline as a Flask web application; applied data wrangling and feature engineering throughout the pipeline.

Heart Disease Analysis | github.com/smohan-21/Heart-Disease-Analysis MySQL · Tableau · Flask

- Developed interactive Tableau KPI dashboards (92.1% recall) to visualize heart disease risk patterns across clinical and demographic indicators; published on Tableau Public.
- Integrated MySQL database with a Flask web app; applied end-to-end data cleaning and ETL on raw healthcare datasets.

HR Employee Attrition Analysis | github.com/smohan-21/HR-Employee-Attrition-SQL SQL · MySQL · Data Modeling

- Wrote 15+ SQL queries to analyze attrition across roles, departments, and tenure cohorts; developed 5+ KPI metrics (attrition rate, headcount trends), reducing HR reporting time by ~30%.

AI Bank Churn Analytics | github.com/smohan-21/AI-Bank-Churn-Analytics Python · Pandas · NumPy · Matplotlib

- Analyzed 10,000+ customer records to identify top 3 churn risk factors; projected 15% improvement in retention targeting through multi-segment EDA and statistical analysis.

Sentiment Analysis on Product Reviews | github.com/smohan-21/sentiment-analysis-on-product-reviews Python · NLP · Pandas · Data Cleaning

- Built an NLP pipeline to classify product reviews at scale; surfaced brand perception trends and improvement areas using sentiment scoring and keyword frequency analysis.

JOB SIMULATIONS & VIRTUAL EXPERIENCE

JPMorgan Chase & Co. — Quantitative Research Virtual Experience Program	Mar 2026
Tata Consultancy Services — Data Visualisation: Empowering Business with Effective Insights	Mar 2026
Quantium — Data Analytics Virtual Experience Program	Mar 2026
Tata Consultancy Services — GenAI Powered Data Analytics Virtual Experience Program	Feb 2026
Deloitte — Data Analytics Virtual Experience Program	Feb 2026

EDUCATION

Siddharth Institute of Engineering & Technology, Puttur Sept 2022 – May 2026

B.Tech – Computer Science Engineering (CSE) | Specialization: IoT, Cybersecurity & Blockchain

- Relevant coursework: Database Management Systems, Python Programming, Computer Networks

CERTIFICATIONS

- Microsoft & LinkedIn: Career Essentials in Data Analysis (2025)
- IBM: Python 101 for Data Science (2025)
- IBM: SQL and Relational Databases 101 (2025)
- Simplilearn: Business Analytics with Excel (2025) | Simplilearn: Power BI for Beginners (2025)