

GOPICHANDH GURRAM

Data Scientist | MACHINE LEARNING ENGINEER | DATA ANALYST | Python Developer

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Summary

Results-driven Data Scientist with a strong foundation in data analytics, **machine learning**, and **statistical modeling**. Experienced in extracting insights from complex datasets to drive data-driven decision-making. Skilled in Python, SQL, and data visualization tools like Tableau and Power BI. **Adapt** at building predictive models, optimizing processes, and presenting actionable **insights**. Strong **problem-solving** abilities with experience in real-world projects, including network infrastructure optimization and social media analytics. Seeking opportunities to leverage analytical skills in a dynamic environment to **solve** business challenges and enhance operational efficiency.

Education

Clark University

08/2023 - 05/2025

MSc - Data Analytics | GPA: 3.7 / 4

- Mathematics & Statistics
- Python with libraries
- SQL(PostgreSQL)
- Data Mining with Splunk
- Tableau & PowerBI
- Linear Regression & Time Series
- Machine Learning (Regression & Classification)
- Deep Learning (NN, CNN, RNN)
- Cyber Security

GNA University

08/2023 - 05/2025

B.Tech – Aerospace

GPA:8.1/10

- Matlab & Simulation
- CAD
- ANSYS

Experience

ESM SQUARE TECHNOLOGIES PRIVATE LIMITED

Bangalore

Data Analyst

08/2021 - 03/2023

Conducted Exploratory data analysis (**EDA**) and created **interactive** dashboards, allowing stakeholders to monitor **KPIs** in real-time

- Worked with a team to **improve** forecasting accuracy by **20%** using time-series models in Python.
- Automated data cleaning processes **reduced** time spent on manual data wrangling by 2 hours per week.
- Provided insights into marketing campaigns by performing customer segmentation using **K-means clustering**.
- Reduced data retrieval time by **25%** by implementing more efficient data structuring methods.

Skills

- Mathematics & Statistics
- Excel (Advanced)
- SQL (PostgreSQL)
- Tableau & PowerBI
- Python (NumPy, Pandas, Matplotlib)
- R (Statistical Analysis)
- Machine Learning (Scikit learn, Keras, TensorFlow, PyTorch)
- Deep Learning (NN, ANN, CNN, RNN, CV)

Projects

Automated ML Systems

An Automated Model System streamlines the **end-to-end** machine learning workflow, from data preprocessing and model training to deployment and monitoring. It automates tasks such as feature engineering, **hyperparameter tuning**, and **performance evaluation**, **reducing** manual effort and improving efficiency. These systems enhance scalability, ensure reproducibility, and enable real-time decision-making in applications like fraud detection, predictive maintenance, and recommendation systems.

- Efficient Model Development – **Reduced** time and effort needed for data preprocessing, feature selection, and model training.
- Improved Model Performance – **Optimized hyperparameters** and automated retraining to keep high accuracy and reliability.
- Reduced Manual Effort – Automation minimizes human intervention, improving **productivity** and **consistency**.

Network Switch Utilization Analysis – Clark University

- Analyzed nine months of historical switch utilization data to optimize network costs.
- Identified underutilized switches and provided data-driven recommendations for consolidation.
- Used heatmaps and bar charts to visualize utilization patterns and potential cost savings.

Customer Churn Prediction

Skills Used: Machine Learning, Feature Engineering, Data Visualization, Model Optimization

- Analyze customer behavior data to predict churn using classification models (Logistic Regression, Random Forest, XGBoost)
- Perform feature engineering to extract insights from customer interaction patterns.
- Develop a dashboard to visualize churn probabilities and retention strategies.

Certificates

Machine Learning Pipelines with Azure

Coursera

<https://www.coursera.org/learner/gcr-certificates>

Introduction to MATLAB

Vanderbilt University

<https://www.coursera.org/learner/gcr-certificates>

Data Science

BCGX – Forage

<https://www.theforage.com/achievements>