

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	GNA University
MSc - Data Analytics GPA: 3.7 / 4.		B.Tech – Aerospace GPA: 8.1/10.
<ul style="list-style-type: none">Mathematics & StatisticsPython with librariesSQL(PostgreSQL)Data Mining with SplunkTableau & PowerBI	<ul style="list-style-type: none">Linear Regression & Time SeriesMachine Learning (Regression & Classification)Deep Learning (NN, CNN, RNN)Cyber Security	<ul style="list-style-type: none">Matlab & SimulationCADANSYS

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

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| <ul style="list-style-type: none">Mathematics & StatisticsExcel (Advanced)SQL (PostgreSQL)Tableau & PowerBI | <ul style="list-style-type: none">Python (NumPy, Pandas, Matplotlib)R (Statistical Analysis)Machine Learning (Scikit learn, Keras, TensorFlow, PyTorch)Deep Learning (NN, ANN, CNN, RNN, CV) |
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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/account-profile>

Introduction to MATLAB
Vanderbilt University
<https://www.coursera.org/account-profile>

Data Science
BCGX – Forage
<https://www.theforage.com/achievements>