

Maharshi Rohith Donthi

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EDUCATION

Rutgers University

M.S. in Data Science (Statistics Track), GPA: 3.3/4

New Brunswick, NJ

Sep 2023 – Dec 2025

National Institute of Technology Rourkela

B.Tech. in Computer Science and Engineering

Rourkela, India

Aug 2019 – May 2023

EXPERIENCE

Data Science Intern

Synergy Resources LLC

Oct 2025 – Dec 2025

New Jersey, USA

- Built end-to-end credit underwriting pipeline integrating behavioral, bureau, and transactional data across 50,000+ accounts with APR standardization, improving risk decisioning accuracy
- Developed logistic regression default model (AUC 0.87, KS 0.42) and gradient boosting loss model achieving 22% RMSE reduction for portfolio risk segmentation and loss forecasting
- Implemented model monitoring with drift detection, automated retraining triggers, and governance documentation; delivered dashboards training 20+ loan officers, contributing to \$180K annualized savings

Statistics Grader & Mentor

Rutgers University

Jan 2024 – Dec 2025

New Brunswick, NJ

- Evaluated 200+ assignments across Regression Methods, Business Statistics, and Python Programming; mentored 15+ students with feedback on statistical reasoning and coding fundamentals
- Built Python grading automation scripts reducing evaluation time by 30% while improving consistency

Data Analyst Intern

Jaaji Technologies

May 2022 – Jul 2022

Ongole, India

- Developed ML models (Random Forest, XGBoost) predicting Flash Point with 97% accuracy, enabling real-time production decisions and reducing defect rates
- Improved Naphtha End Point efficiency by 15% and reduced costs by 10%, contributing to \$60K savings; automated Power BI dashboards for quality tracking

PROJECTS

Energy Market Forecasting & Policy Impact Analysis | Python, statsmodels, VAR

- Built compositional forecasting pipeline for state-level electricity mix (50 states, 3 fuel categories, 1990–2023) using CLR transformation and Vector Autoregression with AIC-based lag selection
- Implemented rolling-window validation with 95% prediction intervals, benchmarking VAR vs. persistence baselines

Predictive Analysis for Online News Popularity | Python, NLP, LLMs, scikit-learn

- Developed ETL pipeline processing 30K+ articles with LLM-based misinformation detection and anomaly identification
- Built ensemble model improving content reach predictions by 25%; performed SHAP feature analysis identifying key engagement drivers (sentiment, topic, timing)

TECHNICAL SKILLS

Programming Languages: Python, SQL (PostgreSQL, MySQL), R, Java

ML & Data Science: scikit-learn, XGBoost, LightGBM, TensorFlow, pandas, NumPy, statsmodels, SciPy

Tools & Platforms: Tableau, Power BI, Git, Docker, AWS (S3, EC2, Lambda), Jupyter, Linux

Statistical Methods: Regression, Classification, Time Series Forecasting, A/B Testing, Hypothesis Testing

Domain Expertise: Credit Risk Modeling (PD/LGD), Model Monitoring, Portfolio Analytics, Underwriting

Certifications: Bloomberg Market Concepts (BMC), Financial Statistics & Risk Management (FSRM)

ADDITIONAL INFORMATION

Languages: English (Fluent), French (Conversational), Hindi (Native), Telugu (Native)

Activities & Interests: Fitness & Wellness, Culinary Arts, International Travel, Sports Analytics