

NAGAKAMAL GUTTULA

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PROFESSIONAL SUMMARY

Aspiring **Data Science Professional** and **MCA candidate** with a strong mathematical foundation (State Rank 196 in TS ICET). Experienced in building end-to-end Machine Learning pipelines, from data preprocessing and feature engineering to model deployment. Passionate about leveraging data-driven insights to solve complex real-world challenges.

TECHNICAL SKILLS

- **Languages:** Python
- **Database:** SQL (MySQL).
- **Machine Learning:** Regression, Classification
- **Tools:** VS Code, Streamlit, Pickle.

PROJECTS

Data-Driven Crop Yield Prediction | ML & Predictive Analytics

- **Dataset:** Integrated soil composition (pH, nutrients) with meteorological data (Rainfall, Temp) from Kaggle.
- **Engineering:** Performed feature scaling and handled multi-collinearity to ensure model stability.
- **Modeling:** Developed and benchmarked **KNN**, **Gradient Boosting**, and a **Voting Regressor** ensemble.
- **Optimization:** Optimized model performance using **GridSearchCV** and **5-Fold Cross-Validation**, identifying Rainfall and Soil pH as the primary predictors.

Heart Disease Prediction System | End-to-End ML Deployment

- **Data:** Analyzed ~900 clinical records, performing extensive EDA and missing value imputation.
- **Implementation:** Developed a binary classification model using **Logistic Regression** and **Pickle** for model serialization.
- **Deployment:** Built and launched a real-time web interface using **Streamlit** to provide instant diagnostic predictions based on user-input clinical data.

EDUCATION

- **MCA** | JNTU Hyderabad | 2024 – 2026 | **8.33 CGPA**
- **B.Tech (ECE)** | Marri Laxman Reddy Institute (MLRITM) | 2023 | **6.99 CGPA**
- **Intermediate (MPC)** | Sri Nalanda Junior College | 2017 – 2019 | **91%**
- **SSC** | Triveni Talent School | 2016 – 2017 | **9.5 GPA**

ACHIEVEMENTS & STRENGTHS

- **State Rank 196** in **TS ICET** (Telangana State Integrated Common Entrance Test).
- Strong analytical mindset.
- Quick learner with adaptability to new things.