

Miriyala Nikhil Sai

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EDUCATION

Indian Institute of Information Technology, Sri City, AP <i>B.Tech - Computer Science and Engineering</i>	08/2023 – Present
Sri Chaitanya Junior College, Guntur, AP <i>MPC</i>	06/2021 – 06/2023 Percentage: 94.9%

SKILLS SUMMARY

Languages: Python, SQL, Java, C, JavaScript

Data Science & ML: Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

Web Development: MERN Stack (MongoDB, Express.js, React, Node.js)

Tools: MySQL, Git, GitHub, Jupyter Notebook, Excel, VS Code

Soft Skills: Problem Solving, Critical Thinking, Team Collaboration, Project Management

PROJECTS

Customer Churn Prediction System | [LINK](#)

2025

- Built an end-to-end machine learning system for telecom churn prediction using a soft voting ensemble (Gradient Boosting, Random Forest, AdaBoost, Logistic Regression)
- Performed extensive data preprocessing, feature engineering, and exploratory data analysis to identify key churn drivers such as contract type, tenure, and monthly charges
- Achieved **81.37% test accuracy** and a strong **ROC–AUC score of 0.86**, demonstrating effective churn risk ranking
- Deployed a production-ready Streamlit web application supporting real-time and batch churn prediction with probability-based risk categorization

Titanic Survival Prediction - Kaggle Competition | [LINK](#)

2025

- Achieved 0.78468 score ranking in top 20% among 15,000+ participants through feature engineering and model optimization
- Applied data preprocessing, handled missing values, created derived features (titles, family size), and feature scaling
- Trained ensemble models (Random Forest, Gradient Boosting, Logistic Regression) with cross-validation

Smart Exchange — Refurbished Electronics Marketplace | [LINK](#)

2024

- Built a full-stack e-commerce platform for buying and selling refurbished electronics using **React** and **Tailwind CSS**
- Developed RESTful backend services with Node.js, Express.js, and MongoDB for product management and user transactions
- Implemented secure user authentication and session handling using Express-Session and Bcrypt

ACHIEVEMENTS & CERTIFICATIONS

- Qualified to 2nd round in Odoo x Amalthea IIT Gandhinagar Hackathon 2025
- **Machine Learning Specialization** by Andrew Ng certification
- **Java Programming: Beginner to Master** certification
- **Kaggle Data Visualization** certification