

# MANDALA FANI

Software Engineer — Full Stack Developer — Data Science Graduate

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## Professional Summary

Software Engineer with hands-on experience in full stack development, RESTful APIs, and data-driven solutions. Proven expertise in building scalable web applications using React, Node.js, and Flask with MongoDB and SQL databases. Skilled in backend development, CRUD operations, machine learning model deployment, and modern development workflows. Strong foundation in data science with practical experience in predictive modeling and analytics.

## Technical Skills

**Programming Languages:** Python, Java, JavaScript, HTML, CSS, SQL

**Frontend Technologies:** React.js, Tailwind CSS, Responsive Web Design

**Backend Technologies:** Node.js, Express.js, Flask, RESTful APIs, CRUD Operations

**Database:** MongoDB, MySQL, SQL, Database Design

**Data Analysis & ML:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Machine Learning Algorithms

**Deployment & Tools:** Render, Vercel, Git, GitHub, Version Control

**Core Competencies:** Full Stack Development, Backend Development, Data Science, API Integration

## Projects

### Used Car Price Prediction / Python, Flask, Machine Learning, Linear Regression, Random Forest

- Developed machine learning model achieving 89% prediction accuracy using Linear Regression and Random Forest algorithms to predict used car prices based on 8+ features including mileage, year, fuel type, and brand
- Performed data preprocessing and feature engineering on 5,000+ vehicle records, reducing prediction error by 25% through outlier detection and normalization techniques
- Deployed production-ready Flask-based REST API on Render with JSON response format, enabling real-time price predictions with sub-second response time

### Online Employee Leave Management System / Node.js, Express.js, MongoDB, REST API

- Developed full-stack web application serving 100+ users to automate employee leave requests, approvals, and tracking, reducing manual processing time by 70%
- Implemented 15+ RESTful API endpoints with CRUD operations using Node.js, Express.js, and MongoDB, achieving 99% uptime and handling 500+ daily requests
- Designed role-based authentication system with JWT tokens for employees and administrators, featuring automated leave balance calculation, approval workflows, and real-time status tracking

### College Management System / React, Node.js, Express.js, MySQL

- Built scalable full-stack application managing 500+ student records with role-based access control for Admin, Faculty, and Students using React frontend and Node.js backend
- Implemented secure JWT authentication, student attendance tracking system with 95% accuracy, automated result management, and notice publishing module with responsive UI design
- Integrated 20+ backend REST APIs with MySQL relational database, optimizing query performance by 40% through indexing and normalized schema design for academic workflow automation

## Education

### TKR College of Engineering and Technology

Bachelor of Technology in Computer Science (Data Science)

- GPA: 7.5/10

Hyderabad, India

2021 – 2025

## Professional Certificates

Be10x – AI Tools Workshop (2025)

HP LIFE – Data Science & Analytics (2025)

HP LIFE – AI for Beginners (2025)

Udemy – HTML for Beginners (2024)

Simplilearn – Introduction to Artificial Intelligence (2023)