MANDELA DURGA PAVAN KUMAR

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LinkedIn | GitHub

EDUCATION

Swarnandhra College of Engineering and Technology, Narsapur, AP *Current (82%)*
B.Tech in Computer Science and Engineering

Sri Surya Junior and Degree College, Narsapur, AP *2020–2022 (93%)*
BIEAP, MPC

Viveka E.M High School, Mogalthur, AP *2020 (96%)*
BSE AP

SKILLS SUMMARY

Languages: Java, Python, SQL
Frameworks & Libraries: Pandas, Numpy, Scikit-learn, Matplotlib
Databases: MySQL, MongoDB
Tools: Git, GitHub, Excel, Docker
Platforms: VS Code, Jupyter Notebook
Concepts: Machine Learning,Data Structures, OOP
Soft Skills: Communication, Problem Solving, Adaptability

WORK EXPERIENCE

AI/ML Intern *May 2025 – July 2025*
Blackbucks Engineers Company

- Built predictive models using supervised machine learning for real-time classification.
- Preprocessed data via encoding, normalization, and outlier cleaning.
- Implemented Decision Trees, Logistic Regression, and Random Forest algorithms.
- Conducted exploratory data analysis (EDA) and deployed models using Flask and Scikit-learn.

PROJECTS

AI Image Forensics Tool *Sep–Oct 2025*

- Developed deep learning pipeline to detect forged images using metadata and pixel inconsistency.
- Trained classification models on tampered image datasets with compression and lighting changes.
- Achieved high classification accuracy for authentic vs. fake images to aid media verification.

Centralized Digital Notice Board (MERN) *Jul–Aug 2025*

- Built a MERN stack application with secure admin authentication using Firebase Auth.
- Integrated Firebase Storage for media uploads and dynamic filtering by notice category.
- Added real-time document previews and push/email notifications via EmailJS.

AI Voice Assistant (JavaScript) *Mar–May 2025*

- Designed browser-based assistant using Web Speech API for speech recognition and synthesis.
- Supported voice commands for weather, search queries, and app interactions.
- Achieved cross-platform responsiveness with minimal resource usage.

CERTIFICATES

Java | HackerRank *Jun 2025*
Docker Essentials| IBM *Sep 2025*
AWS Cloud Essentials | AWS *Sep 2025*