DS PRANITHA

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SUMMARY

A motivated B.Tech CSE student skilled in AI, Machine Learning, and Full-Stack Web Development. Experienced with CNN, LSTM, Random Forest, and hybrid deep learning models applied to real-world projects. Strong in Python, Java, SQL, and MERN stack with a passion for solving problems through technology.

EDUCATION

B.Tech in Computer Science and Engineering – VIT, Amaravati	**CGPA: 8.56**	**(2022–2026)**
Class XII – Prathibha Junior College, Mahabubnagar	**96%**	**(2022)**
Class X – Mahabubnagar Grammar School, Mahabubnagar	**CGPA: 10.0**	**(2020)**

PROFESSIONAL EXPERIENCE

AI-Based Student Performance Prediction – Teachnook Internship Project

- Built a machine learning model to predict student academic performance using Python and scikit-learn.
- Used Decision Tree and Random Forest classifiers to achieve over 90% accuracy.

SKILLS

Programming and System Engineering: Java, C, Python, SQL, HTML, CSS, MERN Full Stack.
Soft Skills: Communication, Teamwork, Adaptability, Leadership, Problem Solving.
Core Subjects: Data Structures and Algorithms, Computer Networks, DBMS, OOPs.
Languages: English, Telugu, Hindi.

CERTIFICATIONS

- Blackbucks Certified: Full Stack MERN
- AWS Academy Graduate – Cloud Architecting, Cloud Foundations
- AWS Educate – Introduction to Cloud 101, Generative AI
- IBM – Enterprise Design Thinking Practitioner, Co-Creator

PROJECTS

- **Real-Time Human Activity Recognition System**
  Built a CNN-LSTM hybrid model to classify activities like walking, running, and sitting using sensor data. Achieved high real-time prediction accuracy; under review for journal publication.
- **OrganiQ-Net: Organ Viability Prediction**
  Developed a CNN + LSTM + LightGBM model to predict organ viability from imaging, time-series, and clinical data. Achieved 95%+ accuracy; published at the 19th IEEE Conference.
- **Todo List Web Application (MERN Stack)**
  Designed and deployed a full-stack task manager with secure JWT-based login, MongoDB persistence, REST APIs, and a React.js UI. Enabled full CRUD and real-time updates.
- **Quantum's in Medical Imaging**
  Designed a hybrid diagnostic model integrating EfficientNet, Vision Transformer, and LightGBM to enhance image clarity and tissue analysis. Achieved 96% accuracy with improved diagnostic precision and reduced imaging noise.

EXTRA-CURRICULARS & ACHIEVEMENTS

- Attended sessions and workshops organized by campus clubs to explore interests in public speaking, tech, and entrepreneurship
- Volunteered in small roles during college fests and departmental events
- Member of online AI and coding communities to stay updated with trends and innovations

PUBLICATIONS

- **Real-Time Human Activity Recognition using CNN-LSTM**
  Published at *INDIACom-2025 (IEEE Conference ID: 66777 — SCOPUS Indexed), 12th International Conference on Computing for Sustainable Global Development*, Bharati Vidyapeeth, New Delhi
  https://ieeexplore.ieee.org/document/11115369/
- **OrganiQ-Net: Hybrid AI Model for Organ Viability Prediction**
  Accepted at 5th International Conference on Intelligent Systems and Machine Learning (ICISML-2025), NIT Meghalaya, India – Awaiting Publication