

MAMILLAPALLI UDAY KUMAR

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Computer Science undergraduate with specialization in AI/ML with applied knowledge of Data Structures and Algorithms. Hands-on experience in full-stack development and ML/NLP using Java, Python, React and modern frameworks to build scalable, user-centric solutions.

EDUCATION

MLR Institute of Technology <i>Bachelor of Technology in CSE-AIML (CGPA: 8.70)</i>	2022 – Pursuing Hyderabad, India
RNR Junior College <i>Board of Intermediate Education Andhra Pradesh (Percentage: 96.5%)</i>	2020 – 2022 Andhra Pradesh, India
De Mont Fort English Medium High School <i>Board of Secondary Education Andhra Pradesh (CGPA: 10)</i>	2019 – 2020 Andhra Pradesh, India

PROJECTS

- Brain Stroke Detection – (Ongoing)** | *Python, TensorFlow/Keras, CNN, LSTM, U-Net, Grad-CAM*
- Preprocessed CT scans for AI input; used CNN for slice-level and LSTM for sequential stroke detection.
 - Combined CNN + LSTM predictions; localized lesions with U-Net and Grad-CAM.
 - Integrated patient metadata and uncertainty estimation; developed web dashboard with PDF report generation.
- IIT Seat Allotment Predictor** | *Python, Streamlit, Scikit-learn, Pandas, Plotly*
- Developed an ML-based web app using Random Forest to predict IIT seat allotments based on JEE rank, preferences.
 - Implemented dynamic filters and interactive data visualization using Plotly.
 - Recognized as Runner-Up at ZENITH'24 Hackathon.
- Banking Management System** | *Java, MySQL, JDBC, OOP*
- Developed a console-based banking application supporting user registration, login, deposits, withdrawals, transfers, and transaction history.
 - Implemented role-based access control with separate Admin and User functionalities.
 - Integrated MySQL database using JDBC for persistent storage of users, accounts, and transactions.

SKILLS

Programming & Tools: Java, Python, Data Structures and Algorithms, VS Code, Git
Web & Databases: HTML, CSS, JavaScript, MySQL, Firebase
AI/ML Frameworks & Libraries: Scikit-learn, Pandas, TensorFlow, OpenAI API
Soft Skills: Problem-Solving, Team Collaboration, Communication, Adaptability

WORK EXPERIENCE

- Web Development Intern** Apr. 2025 – May 2025
ApexPlanet Software Pvt. Ltd. Remote (India)
- Completed a virtual internship on HTML, CSS, and JavaScript, delivering projects via GitHub and LinkedIn.
 - Developed skills in responsive design and front-end development through task-based assignments.

ACHIEVEMENTS

- Hackathon Runner-Up** 2024
ZENITH'24 Hackathon, MLR Institute of Technology Hyderabad, India
- Recognized for developing the IIT Seat Allotment Predictor using ML and visualization tools.

CERTIFICATIONS

- Achieved certification in "Data Structures and Algorithms in Java" from NPTEL.
- Earned "Smart Coder badge" in Data Structures and Algorithms by Smart Interviews.
- Certified in "Web Development" through Internshala Training.
- Certified in "Machine Learning with Python" and "Python 101 for Data Science" by IBM Cognitive Class.
- Participated in Summer School on "Generative AI and LLMs" by CBIT & IEEE Hyderabad.
- Completed "Python Essentials" and "Data Analytics" courses from Cisco Networking Academy.
- Accomplished "Java Full Stack Development" training via EduSkills.
- Completed Coursera's "Introduction to Software Engineering" by IBM.