

T Karthik Reddy

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EDUCATION

Mahindra University <i>B.Tech Computer Science</i>	June 2026
Page Junior College (State Board of Intermediate Education) <i>Subjects - Maths, Physics, Chemistry & Ethics</i>	June 2022 <i>GRADE: A</i>
Narayana School (Board of Secondary Education)	June 2022 <i>CGPA: 10.0/10.0</i>

COURSEWORK

Courses: C, C++, Java, Python, Data Structures & Algorithms, Deep Learning, Discrete Maths, Image processing, Theory of computation, DBMS, Computer Network & Security and Optimization Techniques for AI

SKILLS

Languages: C/C++, Java, Python, BASH, HTML5, JavaScript, CSS, ReactJs & SQL (Mysql & PostgreSQL).
Tools: Keras, TensorFlow, Pytorch, Hugging-Face, Flask, REST api's, JavaFX, API Management, PostgreSQL, Unix/Linux, Git, VS Code & IntelliJ IDEA/PyCharm, Kubernetes, Docker, Jenkins, Wire shark.

PROJECTS

Web Development	June. 2023
<ul style="list-style-type: none">Created the official website for QUBIT (Quantum Computing Club) to publish blogs, host events, and manage registrations. Built using ReactJS and optimized for traffic and reduced page load time by 29.8% .	
Network Security	Feb. 2025
<ul style="list-style-type: none">Built a CNN-based system trained on the KDD dataset to detect network intrusions. Good performance with ADASYN for imbalanced class handling. Achieved improved accuracy and recall on minority attack types	
Automation	Jan. 2024
<ul style="list-style-type: none">Utilized YOLOv8 and a multi-modal strategy to classify aircraft as civilian, military, or UAV which can handle large-scale data and optimized latency by 20%. Aids military systems in real-time threat assessment.	

AWARDS & ACHIEVEMENTS

Best startup ideation, EntrepX 2025.
Winner, Qiskit Fall Fest (IBM Quantum Challenge), 2024.

EXPERIENCE

National Remote Sensing Centre <i>Machine Learning intern</i>	June. 2025 – Present
Working on satellite data processing using 3D CNN and LSTM to analyze satellite data, remove noise, and classify vegetation into different crops across different terrains.	

HOBBIES

Robotics and DIY Projects	2019 – Present
Design and build robotics and DIY projects such as an object detector and a high-speed line-following bot for tech challenges and competitions.	