MEDIGA KOUSHIK

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Education

National Institute of Technology, Andhra Pradesh	**2022 – Present**
Bachelor of Technology in Computer Science and Engineering	*CGPA: 8.45*
Narayana Junior College, Hyderabad	**2020 – 2022**
Intermediate (MPC)	*Percentage: 98.6%*
Naagarjuna Model School, Hyderabad	**2020**
Secondary School Certificate (SSC), Telangana State Board	*CGPA: 10.0*

Projects

EduHub – EdTech Website | *MERN Stack* | <u>GitHub</u> | <u>Link</u> — **Ongoing**
- Designed and developed a full-stack MERN-based EdTech platform enabling seamless course creation, enrollment, and real-time progress tracking, improving user retention by 30%.
- Integrated secure Razorpay payment gateway for frictionless transactions, increasing paid course conversions by 25% and supporting both student and educator accounts.

Advanced Fake News Detection Website | *Flask, Python, Transformers* — **April 2025**
- Built a Flask-based web application to detect fake news using ML models including Naïve Bayes, Random Forest, and Transformers, achieving 91% accuracy on real-time data.
- Designed a custom 5-step validation pipeline to enhance detection reliability, incorporating content analysis, source credibility, and linguistic patterns.
- Integrated features like an in-built news feed and auto-populating list of known fake news sources, improving usability and real-time detection capabilities.

Sorting Visualizer | *HTML, CSS, Javascript* | <u>GitHub</u> | <u>Link</u> — **November 2024**
- Developed an interactive web app using HTML, CSS, and JavaScript to visualize 5+ sorting algorithms with real-time animations.
- Implemented features for dynamic speed and array size adjustment, enhancing user control and interactivity.
- Optimized animation logic and improved UI/UX, resulting in a smoother learning experience and increased engagement.

Technical Skills

Programming Languages: C, C++, Python, Java, JavaScript
Databases: MySQL, MongoDB
Frameworks & Libraries: React.js, Node.js, Express.js, Tailwind CSS, Keras, HuggingFace, Bootstrap
Web Development: HTML, CSS, JavaScript, REST APIs, Full-stack (MERN)
Generative AI: Transformer Models, Attention Mechanism, Encoder-Decoder Architecture
Tools & Others: Git, GitHub, Postman, OOP, UI Design, VS Code, Eclipse

Positions of Responsibility & Achievements

Inter-NIT Basketball Team — **2024 – 2025**
Vice Captain — *National Institute of Technology, Andhra Pradesh*
- Selected among 50+ players to represent the institute at national-level inter-NIT tournaments.
- Led team strategies and coordinated intensive training sessions, fostering strong communication and teamwork among players.
- Balanced academic and athletic commitments through effective time management and leadership.

Coding Practice — **2023 – Present**
LeetCode, GeeksforGeeks, CodeStudio
- Solved 350+ coding problems, honing strong problem-solving and analytical abilities across diverse data structures and algorithms.
- Consistently practiced self-driven learning and improvement through independent study and platform challenges.