

# VISHAL RAJ

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## EDUCATION

<b>National Institute of Technology, Andhra Pradesh</b>	2022 – 2026
Bachelor of Technology, Electronics & Communication Engineering	CGPA: 8.56
<b>A.N. College, Patna, Bihar</b>	2020 – 2022
Intermediate, Bihar School Examination Board	Percentage: 85.6

## EXPERIENCE

<b>Indian Institute of Technology, Bhubaneswar</b>   Winter Intern	DEC 2024 - JAN 2025
Natural Language Processing (NLP), Large Language Models (LLMs), Data Annotation	Bhubaneswar, India
<b>Geospatial Knowledge Inference Using LLMs for Enhanced Travel Decision-Making</b>	(Certificate)
<ul style="list-style-type: none"><li>Worked on a <b>Microsoft-supported project</b> under the <b>Microsoft Academic Partnership Grant 2024</b>, focusing on <b>personalized travel planning</b> using <b>Geospatial Knowledge Inference and LLMs</b> to optimize recommendations for <b>5,000+ users</b>.</li><li>Annotated and tested <b>5,000+ travel-related data points</b>, leading to a <b>15% improvement</b> in the accuracy of LLM-driven travel recommendations.</li><li>Performed extensive <b>data analysis</b> on <b>50,000+ records</b>, optimizing geospatial knowledge inference and reducing system response time by <b>20%</b>.</li><li>Developed an pipeline for travel decision-making models, reducing training time by <b>30%</b> and cutting computational costs by <b>25%</b>.</li></ul>	

## PROJECTS

<b>BookStore App</b>   MongoDB, React.js, Tailwind CSS, Express.js, Node.js	JAN 2025 - FEB 2025
<ul style="list-style-type: none"><li>Developed an online platform featuring <b>1000+ books</b> across <b>15+ genres</b>, enhancing digital reading accessibility.</li><li>Enhanced a full functionality UI using <b>React.js</b> and <b>Tailwind CSS</b>, enhancing user experience and accessibility.</li><li>Integrated <b>Express.js</b> and <b>Node.js</b> for efficient backend operations, secure authentication, and streamlined book management.</li></ul>	
<b>Portfolio Website</b>   MongoDB, Express.js, React.js, Node.js	FEB 2025
<ul style="list-style-type: none"><li>Showcased <b>projects, skills, and experience</b>, attracting <b>50+ monthly visitors</b>.</li><li>Implemented a <b>responsive UI</b> with <b>React.js</b>, dynamically fetching content from <b>MongoDB</b>.</li><li>Built a robust backend with <b>Express.js</b> and <b>Node.js</b>, handling user inquiries and feedback securely.</li></ul>	
<b>Healthcare Chatbot</b>   TensorFlow, Keras, NLP	JAN 2024 - APR 2024
<ul style="list-style-type: none"><li>Created an <b>AI chatbot</b> processing <b>5000+ queries</b> with <b>90%+ accuracy</b>, improving healthcare accessibility.</li><li>Optimized real-time responses using <b>TensorFlow</b> and <b>Keras</b>, reducing latency to <b>under 2 seconds</b>.</li><li>Enhanced NLP-based query handling, increasing recommendation accuracy by <b>25%</b> with a <b>10,000+ word medical dataset</b>.</li></ul>	
<b>Amazon Clone</b>   HTML, CSS, JavaScript	DEC 2023
<ul style="list-style-type: none"><li>Built a functional <b>e-commerce platform</b> inspired by Amazon, featuring <b>50+ product listings</b>.</li><li>Designed an interactive UI with <b>HTML, CSS, and JavaScript</b>, ensuring responsiveness across devices.</li><li>Optimized search and filtering, reducing query time by <b>40%</b> through JavaScript-based sorting algorithms.</li></ul>	

## SKILLS

Languages	C, C++, Java, Python, SQL, JavaScript
Developer Tools	Git, GitHub, Eclipse, VS Code, Tailwind, Numpy, Pandas
Frameworks & Libraries	React.js, Node.js, Express.js, TensorFlow, Keras
Coursework	Data Structures & Algorithms, Data Base Management System ( <a href="#">NPTEL Course</a> ), Object-Oriented Programming, Computer Networks, Machine Learning, Embedded Systems
Soft Skills	Problem Solving, Teamwork, Clear Communication, Innovative Approach
Areas of Interest	Software Development, Embedded Systems

## ACHIEVEMENTS / CERTIFICATIONS

- Participated in [Smart India Hackathon 2024](#)
  - Created a **scalable web-based application** to solve real-world challenges, selected from **2,500+ teams nationwide**.
  - Led a **6-member team** to develop a prototype, achieving a **95% completion rate**.
- Competitive Programmer – [Leetcode](#) and CodeStudio
  - Solved **250+ Data Structures and Algorithms (DSA)** problems across **10+ topics**, including **Graph Theory, Dynamic Programming, and Greedy Algorithms**.