

# ATISH KUMAR

Final Year | Electrical Engineering | IIT Jodhpur  
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## Education

<b>Indian Institute of Technology Jodhpur, India</b> Bachelors of Technology in Electrical Engineering	Nov 2022 – May 2026 Current CGPA: 7.50/10
<b>Gurukul Vidyapeeth, Hajipur</b> Secondary & Higher Secondary Education	May 2014 – Apr 2022 HSC: 96.2% · SSC: 96.6%

## Experience

<b>Summer Research Intern IIT Jodhpur</b> Mentor: Dr. Binod Kumar <ul style="list-style-type: none"><li>Developed optimization modules for chiplet-based architectures, enhancing placement and routing efficiency by reducing latency and wirelength.</li><li>Collaborated in a 3-member team, employing Agile workflows, version control, and GitHub Actions to streamline development.</li><li>Benchmarked algorithms on real-world datasets and generated insights contributing to conference-level publications.</li></ul>	May 2025 - Sep 2025
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## Projects

<b>Snazzy Shop Website</b> React.js · Node.js · Express.js · MongoDB · Tailwind CSS · JWT <ul style="list-style-type: none"><li>Engineered a full-stack e-commerce application with secure authentication, product catalog management, and shopping cart functionality.</li><li>Designed REST APIs and integrated MongoDB for scalable, persistent, and secure data handling.</li><li>Built a responsive React.js frontend styled with Tailwind CSS for a seamless cross-device experience.</li></ul>	June – Aug 2025 Website  
<b>Travel Tracker</b> Node.js · Express.js · EJS · PostgreSQL <ul style="list-style-type: none"><li>Developed a web-based travel diary that enables users to log destinations, trip details, and notes in a structured format.</li><li>Implemented PostgreSQL schemas for itinerary management and optimized server-side logic using Express.js.</li><li>Leveraged EJS templates for generating dynamic views, ensuring an interactive and user-friendly interface.</li></ul>	Jan - Feb 2025 
<b>Heart Stroke Predictor</b> Python · Scikit-learn · Google Colab <ul style="list-style-type: none"><li>Implemented an end-to-end ML pipeline for stroke risk prediction, covering preprocessing, model training, and evaluation.</li><li>Experimented with multiple algorithms (ANN, Random Forest, KNN, Decision Tree, Naive Bayes) and benchmarked their performance.</li><li>Analyzed feature importance to identify key medical risk factors, improving model interpretability.</li></ul>	Mar - May 2024 
<b>MIPS Compiler and Simulator</b> Python · MIPS Assembly <ul style="list-style-type: none"><li>Built a compiler and simulator supporting R, I, and J-type MIPS instructions with label resolution and error handling.</li><li>Developed a parser to translate assembly instructions into binary machine code, validated with many test programs.</li><li>Enabled step-by-step simulation of instructions, serving as a learning tool for understanding computer architecture.</li></ul>	Oct - Nov 2024 

## Achievements

- Secured **All India Rank in top 1.5%** among 160,000+ candidates in **JEE Advanced 2022**.
- Qualified **JEE Mains 2022** out of 10,00,000+ candidates.
- Solved **300+ Data Structures and Algorithms problems** across LeetCode, GFG, and other platforms.

## Technical Skills and Relevant Coursework

- Languages:** Python, C/C++, JavaScript/TypeScript, SQL (MySQL, PostgreSQL), MongoDB
- Frameworks/Tools:** Node.js, Express.js, React.js, FastAPI, Docker, AWS, Git/GitHub, REST APIs
- AI/ML:** Scikit-learn, NumPy, Pandas, Matplotlib
- Coursework:** Data Structures and Algorithms, Pattern Recognition and ML, Artificial Intelligence, Computer Architecture, Probability & Statistics, Linear Algebra & Calculus, Signals and Systems, Digital Design

## Positions of Responsibility & Extracurricular

- Served as **Assistant Head** for Ignus, the cultural fest of IIT Jodhpur.
- Contributed as **Assistant Head** for Varchas, the sports fest of IIT Jodhpur.
- Represented IIT Jodhpur as a participant in the **Inter IIT Cultural Meet 6.0**, showcasing cultural and creative skills on a national platform.
- Actively engaged as a **Core Member** of the Dramatics Society at IIT Jodhpur, contributing to stage performances, script development, and club activities.