

Siddharth Yadav

M.Tech in Computer Science and Engineering

Indian Institute of Technology, Patna | Roll No: 2511CS04

☎ +91-9634183704 ✉ siddharthyadavcs99@gmail.com

📍 IIT Patna, Bihar, India 🔗 [linkedin.com/in/siddharth1374](https://www.linkedin.com/in/siddharth1374) 🐙 [Github](#)



Education

Indian Institute of Technology, Patna

M.Tech. (Computer Science and Engineering)

2025 – Present

CGPA: **8.38** (Current)

Gurukula Kangri (Deemed to be University), Haridwar

B.Tech. (Computer Science and Engineering)

2020 – 2024

CGPA: **8.32**

UP Board

Secondary Education

2017

89%

Achievements

- **GATE CSE 2025:** Secured AIR 1374 with a **99.20 percentile** among 1,70,825 candidates.
- **Competitive Programming:** Solved **700+** problems across LeetCode and GeeksforGeeks.
- **Coding Profile:** Current LeetCode Rating: **1698**.
- **Advanced DSA:** Solved problems in Segment Trees, Tries (Prefix Tree), Graph Algorithms (MST), and DSU.

Experience / Positions of Responsibility

Teaching Assistant – Data Structures | *IIT Patna*

Jan 2026 – Present

Teaching Assistant – C Programming | *IIT Patna*

Aug 2025 – Nov 2025

Projects

IPL Winner Prediction using Machine Learning

2025

Python, Pandas, NumPy, scikit-learn, Matplotlib

- Developed a model to predict match winners using historical datasets and performance stats.
- Implemented Logistic Regression and Random Forest; achieved **80%+** accuracy.

Scalable URL Shortener with Redis Caching & Rate Limiting

2025

Node.js, MongoDB, Redis, Base62 Encoding

- Designed and implemented a scalable URL shortening service supporting high read traffic with efficient key-based lookups.
- Built RESTful APIs to generate unique short URLs using Base62 encoding, ensuring collision-free mappings.
- Improved redirection latency by integrating Redis caching, significantly reducing database load.
- Implemented IP-based and user-based rate limiting to prevent abuse and ensure system reliability under high traffic.

AI-Powered Job Application Tracker

2026

React.js, Node.js, Express.js, MongoDB, Groq AI (API Key)

- Built a full-stack Kanban board web app to track job applications across stages: Applied, Phone Screen, Interview, Offer, and Rejected.
- Integrated Groq AI to automatically parse job descriptions and extract company, role, skills, location, and seniority using prompt engineering.
- Implemented AI-generated resume bullet point suggestions tailored to each job description and role.

- Developed JWT-based authentication system with secure login and registration using JSON Web Tokens.

Technical Skills

Programming	C, C++, Python, JavaScript, SQL
Frontend	React.js, HTML, CSS
Backend	Node.js
Databases	MongoDB, Redis, MySQL
Tools & OS	Git, Linux, Windows, Jupyter Notebook
Lib/Frameworks	Pandas, NumPy, scikit-learn
AI / APIs	Groq AI, REST APIs, JWT

Certifications

- Generative AI & LLM (*GFG Skill Up*)
- Git, C++, and C Certifications (*GFG Skill Up*)

Key Courses Taken

Data Structures, Algorithms, DBMS, Machine Learning, Artificial Intelligence, Theory of Computation, Operating Systems, Computer Architecture and Organization.