

MITHIL BATRA

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EDUCATION

National Institute of Technology, Delhi	2023 – Present
B.Tech. in Computer Science and Engineering	CGPA: 8.93
Stepping Stones Sr. Sec. School, Chandigarh	2022 – 2023
CBSE Board (XII)	Percentage: 91.8
Seth Anandram Jaipuria School, Vasundhara	2020 – 2021
CBSE Board (X)	Percentage: 94.6

SKILLS

Programming	Java, Python, C, C++, JavaScript, TypeScript, Go
Databases	Cassandra, MySQL, PostgreSQL, MongoDB
Cloud & Tools	Azure, AWS, GCP, Git, GitHub, Postman, Arduino
Frameworks & Practices	Spring, SpringBoot, Design Patterns, OOPS, OpenCV, Docker
UI/UX	React, HTML, CSS, Figma
Core Areas	AI, Machine Learning, NLP, Deep Learning(Fundamentals), LLM, RAG

WORK EXPERIENCE

HSBC : Software Engineering Intern	June 2026 – July 2026
- Improving an internal TDS Chatbot through better intent recognition, response generation, and workflow automation to handle tax queries from employees. - Integrating another microservice named Vidura into the GPS portal through service integration, API integration, and environment configurations. - Supporting the Panorama application, which uses Spring Boot and GCP, through bug fixes and code quality improvements to help with production deployment.	

PROJECTS

Pit Wall - F1 Podium Prediction & Analytics Dashboard <i>Python, Flask, scikit-learn, Pandas, FastF1, Docker, REST APIs</i>	
- Built a full-stack ML web app that predicts Formula 1 podium finishes from live timing and telemetry data. - Engineered a leakage-safe feature pipeline with time-ordered splits and walk-forward season backtesting. - Trained and compared Random Forest and gradient-boosting models using honest top-3 hit-rate evaluation. - Automated live race-data fetching and model retraining, and deployed with Docker on a public cloud VM.	
	Github Deployed link
Resolver – Incident Management and Alerting App <i>Next.js, Tailwind CSS, PostgreSQL, Node.js, REST APIs</i>	
- Built a full-stack web application combining issue tracking and real-time incident alerting. - Implemented Kanban-based incident board with manual and webhook/API-based incident creation. - Designed on-call scheduling, escalation policies, and automated multi-channel notification system. - Developed incident timeline and runbook integration for structured incident tracking and resolution.	
	Github
AI-Powered Automated Mock Interview Platform <i>Next.js, Tailwind CSS, PostgreSQL, Google Gemini API</i>	
- Built a full-stack web application to simulate job interviews with AI-driven question generation and evaluation. - Enabled role-based question selection and instant personalized feedback for students. - Designed scalable backend with PostgreSQL. - Reduced manual mentor dependency through automated feedback.	
	Github

CERTIFICATIONS

- **Cassandra (Udemy)** – Gained expertise in distributed database management, fault tolerance, and horizontal scalability. Applied knowledge to optimize real-world data-intensive applications, ensuring high availability and reliability.
- **Azure Services (Microsoft)** – Acquired practical experience in designing, deploying, and managing scalable cloud solutions. Strengthened ability to integrate services like Azure Functions, Storage, and DevOps pipelines for enterprise use cases.
- **C++ SME (Edchart)** – Recognized as a Subject Matter Expert in advanced C++ programming concepts. Demonstrated deep proficiency in STL, memory management, and optimization for building high-performance software.

EXTRA-CURRICULAR ACTIVITIES

- Deputy General Secretary – Google Developer Student Clubs (GDSC), NIT Delhi
- Executive – Training and Placement Cell, NIT Delhi (Calling and Social Media Team)
- Semi-Finalist : Flipkart Grid | L'Oréal Sustainability Challenge
- Won Gold at MST Tournament 2025 held at NIT Jaipur
- Secured **99.467 percentile** in JEE Mains, among the top 0.5% of candidates nationwide
- Qualified JEE Advanced with an **All India Rank of 5376**
- Solved **800+** problems across all coding platforms

COURSEWORK

Software Engineering, Data Mining, Database Management Systems, Quantum Computing, Machine Learning, Artificial Intelligence, Natural Language Processing, Computer Vision, Pattern Recognition, Probability and Statistics, Optimization Techniques