

DHRUV SARKAR

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
B.Tech in CSE (specialization in Artificial Intelligence)	Netaji Subhas University of Technology (NSUT), Delhi	8.74	2022 – Expected 2026
Class XII	TCIS, New Delhi (CBSE)	95.60%	2020 – 2021
Class X	TCIS, New Delhi (CBSE)	95.40%	2018 – 2019

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python
- **CS Fundamentals:** Data Structures & Algorithms, OOP, DBMS, OS, Distributed Systems
- **Web Development:** HTML, CSS, JavaScript, ReactJS, Next.js, Tailwind CSS, Node.js, Express.js, Flask, FastAPI
- **Databases:** MongoDB (NoSQL), XAMPP (SQL), Supabase (PostgreSQL)
- **Machine Learning:** TensorFlow, Scikit-Learn, PyTorch, NumPy, Pandas, Optimization Algorithms
- **Developer Tools:** Git & GitHub, VS Code, Postman, Docker, Ollama, Hugging Face

PERSONAL PROJECTS

- **Welth – AI Budgeting and Finance**  | *Next.js, Tailwind CSS, Supabase, Shadcn, Gemini* 
 - Designed and developed a full-stack web application leveraging AI for **receipt scanning, personalized budgeting, and transaction management**, enhancing user financial literacy.
 - Engineered a scalable schema using **Supabase** and integrated third-party services (ArcJet, Prisma, Inngeist) to improve security.
 - Implemented automated email reminders for bill payments, reflecting a commitment to invent and simplify processes for better user engagement.
- **Convohub: Real-Time Chat Application**  | *MongoDB, Express.js, ReactJS, Node.js, Socket.IO* 
 - Crafted a cross-device real-time messaging backend with Socket.IO, demonstrating low-latency event-driven architecture for scalable applications.
 - Optimized MongoDB schemas and indexing to streamline data flow and ensure efficient, enterprise-grade storage and retrieval in production.
 - Developed a responsive, user-centric React frontend with modular components, showcasing maintainable, performance-focused UI—critical for robust SDE deliverables.
- **Heart Disease Risk Predictor**  | *Python, TensorFlow, Scikit-Learn, Flask* 
 - Deployed a heart disease risk prediction system (team of 3) using **SVM, Logistic Regression, Random Forest, KNN, Neural Network** and ensemble methods.
 - Trained on a public dataset with 1M+ rows and 15+ features, achieving **Accuracy: 95.21%, Precision: 93.16%, Recall: 94.10%**.
- **IngestIQ - Multi Agent Document Processor**  | *Redis, Docker, Flask, ReactJS, Open AI* 
 - Engineered full-stack document processing system handling 3+ file formats with 95%+ classification accuracy using FastAPI/React/Gemini AI.
 - Architected Redis-based memory management system reducing response time by 40% for 1000+ concurrent user sessions.

ACHIEVEMENTS

- Rated 1200+ (Pupil) on Codeforces and 2-star on Codechef.
- Quarter finalist at Hackon With Amazon Season 5 (June 2025).
- Solved over **400** coding problems on platforms such as LeetCode and GeeksforGeeks.
- Completed NVIDIA DLI Certification in Deep Learning Fundamentals at NSUT, optimizing a PyTorch neural network to **95.35%** accuracy.

POSITION OF RESPONSIBILITY

- **Co-Head** | *Research Department* | *Indian Game Theory Society, NSUT* AUGUST 2023 - APRIL 2024
 - Organized events focused on Game Theory in Computer Science and its real-world applications.
 - Conducted research, analyzed scholarly articles, and contributed to the development of Game Theory-based games.
 - Increased online engagement by 100% through strategic social-media and campus initiatives.