DHRUV SARKAR

LinkedIn GitHub €LeetCode LeetCode CodeForces

EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
B.Tech in Computer Science and Engineering with	Netaji Subhas University of	8.70	2022 - Expected
specialization in Artificial Intelligence	Technology (NSUT), Delhi		2026
Higher Secondary Education (Class XII)	TCIS, New Delhi (CBSE)	95.60%	2020 - 2021
Secondary Education (Class X)	TCIS, New Delhi (CBSE)	95.40%	2018 - 2019

TECHNICAL SKILLS

Programming Languages : C, C++, Python

CS Fundamentals: Data Structures and Algorithms, OOP, DBMS, OS, Distributed Systems

Web Development: HTML, CSS, JavaScript, React JS, Next.js, Tailwind CSS, Node.js, Flask, REST APIs

Machine Learning: Tensorflow, scikit-learn, PyTorch, Numpy, Pandas, Optimization Algorithms

Developer Tools: Git and Github, VS Code, Postman

PERSONAL PROJECTS

• Welth - AI Powered Budgeting and Finance 🗹 | NextJS, Tailwind, Supabase, Shadon, Gemini

- Designed and developed a full-stack web application leveraging AI for receipt scanning, personalized budgeting, and transaction management, enhancing user financial literacy and promoting customer obsession.
- Engineered scalable schema using **Supabase** and integrated third-party services like **ArcJet**, **Prisma**, **Inngest** to enhance security.
- Implemented automated email reminders for bill payments, showcasing a commitment to invent and simplify processes for improved user engagement.
- OralCare AI-Driven Dental Imaging Platform 🗹 | ReactJS, Python, FastAPI, Gemini, Roboflow, Shadon
 - Built an end-to-end application enabling users to upload dental DICOM images, utilizing Roboflow's detection models for visual diagnostics, reflecting a deep customer focus.
 - Integrated Google's Gemini API to generate AI-based diagnostic reports and recommendations, exemplifying the principle of invent and simplify.
 - Deployed frontend on Vercel and backend on Render, ensuring seamless communication through proper CORS configurations, highlighting a commitment to delivering high-quality, scalable solutions.
- Heart Risk Predictor: Machine Learning Application 🗹 | Python, TensorFlow, Scikit-learn, Flask
 - Deployed a heart disease risk prediction system in a team of 3 using Machine Learning algorithms (SVM, Logistic Regression, Random Forest, KNN, NN) and ensemble methods for enhanced performance.
 - Used a publicly available dataset with 1M+ rows and over 15 features to achieve high performance with an Accuracy: 95.21%, Precision: 93.16%, Recall: 94.10%.
- Inventory Optimizer 🗹 | Pandas, NumPy, Flask, Streamlit, React JS
 - Built a dynamic Inventory Optimization Application using Streamlit, enabling real-time allocation of limited resources based on user-defined priorities and availability constraints.
 - Used a novel hybrid algorithm incorporating the **KOA** and **RFO** resulting in 20% performance improvements over base models.

ACHIEVEMENTS

- Achieved a Global Rank of 3490 (top 0.05%) in CodeForces Round 1003 (Div.4) (Feb-2025).
- Achieved a 5-star rating in Problem Solving and C++ programming on HackerRank.
- Solved over 400 coding problems on various platforms (Leetcode and GFG).
- Earned NVIDIA DLI Certification in Deep Learning Fundamentals at NSUT, optimizing a PyTorch neural network to achieve 95.35% accuracy.

POSITION OF RESPONSIBILITY

IGTS NSUT

Co-Head, Research Department

Aug 2023 - April 2024

- Organized engaging events focused on Game Theory in Computer Science and its real-world applications.
- Conducted research, analyzed articles and contributed to the development of Game Theory-based games.
- Increased online engagement by 100% through strategic initiatives.