

HARSHDIP SAHA

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Education

Netaji Subhas University of Technology - 8.78 GPA

Bachelor of Technology in Computer Science and Engineering

Aug. 2023 – Aug. 2027

Delhi, India

Kendriya Vidyalaya No.2, Delhi Cantt - 95.6%

Class XII

April 2022 – April 2023

Delhi, India

Kendriya Vidyalaya No.2, Delhi Cantt - 98.4%

Class X

April 2020 – April 2021

Delhi, India

Relevant Coursework

- Data Structures
- Automata Theory
- Algorithms
- DBMS
- AI
- Machine Learning

Projects

RECAP-Net: Classification of Active Progression | PyTorch, MONAI, GANs, Swin UNETR, 3D CNNs Sept 2025

- Proposed an end-to-end pipeline for the **BraTS-PRO 2025 Challenge**, performing longitudinal glioblastoma response classification under the **RANO criteria**, integrating **Swin UNETR** segmentation with an ensemble of 3D ResNet, DenseNet, and EfficientNet classifiers.
- Applied **z-score normalization**, multimodal fusion of baseline/follow-up MRIs, and a **3D spectrally normalized GAN** for class balancing, achieving **3D-SSIM: 0.92 ± 0.03** and **KL divergence: 0.037 ± 0.004** .
- Achieved **94.0% balanced accuracy**, **94.6% F1-score**, and **96.0% AUROC**, outperforming individual backbones ([Paper](#)).

Accurate Precise Timely | Machine Learning, XGBoost, LSTM, ARIMA, Greedy scheduling

Mar 2025

- Developed an AI-powered system that schedules doctor appointments based on patient condition severity and predicted consultation time, while aligning with doctor availability and shift timings.
- Built an admin panel for real-time hospital resource monitoring and implemented LSTM and ARIMA models to predict next-day needs, refined daily using staff updates ([Demo Video](#)).
- Selected among the **top 30** teams to pitch offline at the **AI4Humanity Summit** (with the Israel Embassy) in a hackathon of 150+ teams.

Missing Person Detection in Large Crowds | Cloud Vision API, OpenCV, Hugging Face, facelib

Oct 2024

- Led a team to design an AI-powered system for detecting missing persons in crowds using Google Cloud Vision API.
- Implemented facial recognition with embeddings and cosine similarity for efficient matching.
- Selected among the **top 45 teams out of 200+** to represent NSUT in the Smart India Hackathon 2024 ([Demo Video](#)).

Technical Skills

Languages: Python, C/C++, [MATLAB](#), SQL, JavaScript, HTML/CSS

Frameworks and Tools: Tensorflow, OpenCV, PyTorch, Pygame, Scikit-learn, pytesseract (OCR), Tkinter, Streamlit, SHAP (xAI), Git, Azure, GCP, spaCy, nltk, LangChain, Jupyter, statsmodels, Visual Studio Code

Databases and Services: Azure Blob Storage, MySQL, PostgreSQL, Hugging Face, [Kaggle](#)

Core Competencies: [Computer Vision](#), ML, Data Analysis, Natural Language Processing, Cloud Computing, Time Series Analysis, Deep Learning, [AI](#)

Leadership / Extracurricular

- Secured **World Rank 3** in the **BraTS Lighthouse 2025 – Tumor Progression Challenge**, with our paper accepted for **Oral Presentation** at the **MICCAI 2025 Conference**, South Korea.
- Active ML member at Google Developer Students Club (GDSC) and core member at Hackethix Society.
- Secured All India 14th rank in BRAINDEAD Unstop competition by making two projects: one on EDA and ML, and another on an LLMs hybrid summarizer in Feb 2025. ([GitHub Link](#)) ([Certificate Link](#))
- Solved **1000+** problems across various coding platforms such as [LeetCode](#), [GeeksforGeeks](#), and others. Achieved **Pupil** rank on [Codeforces](#).
- Ranked in the top 0.43% of 1.1M students in JEE-2023.
- Top 30 out of 150+ teams at **AI4Humanity Summit** for an AI-based healthcare system ([Certificate](#)).
- Ranked in the top 1% of students in IIT KGP's [Soft Skills Development](#) course.
- Completed various data science certifications from DeepLearning.AI and [NVIDIA](#).