

Ayush Chatterjee

Full Stack Developer | AI-ML | B.Tech CSE | NIT Durgapur

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Education

National Institute of Technology, Durgapur

Aug 2023 – Ongoing

Bachelor of Technology in Computer Science and Engineering

- GPA: 9.29/10

Baranagore Ramakrishna Mission Ashrama High School

Higher secondary Education

April 2021–April 2023

- Percentage: 93%

Primary and Secondary Education

January 2011–April 2021

- Percentage: 94.85%

Skills

Programming Skills: C/C++, Python, JavaScript, MIPS, Verilog, Shell script (Bash)

Frameworks: React.js, Node.js, Express.js

Databases: PostgreSQL, MySQL

Machine Learning: Scikit-learn, TensorFlow, Keras, PyTorch

Technical Skills: Data Structures and Algorithms, OOPS

Development Tools: Git, GitHub, Jupyter Notebook, VS Code, MySQL

Soft Skills: Problem Solving, Communication, Teamwork, Time Management

Projects

ID Based Attendance Tracker System

[Attendance Tracker System](#)

- Developed a GUI-based attendance tracker that uses OCR to extract student IDs from ID cards via webcam.
- Automated daily CSV logging, image snapshot saving, and email alerts using Python, OpenCV, and SMTP.
- **Tech Stack:** Python, OpenCV, EasyOCR, tkinter, SMTP

CIFAR10 Image Classification

[CIFAR10 Img Classification](#)

- Implemented a CNN model using pytorch and Conv2D on Google Colab platform to classify images of 10 different classes.
- Used the CIFAR10 dataset from Kaggle on Google Colab.
- **Tech Stack:** Pytorch, Conv2D, Python, Deep Learning

Simon Game

[Simon Game](#)

- Created an interactive color-sequence memory game with sound feedback using JavaScript and DOM manipulation.
- **Tech Stack:** Javascript, HTML, CSS

Virtual Painter using OpenCV

[Virtual Painter](#)

- Built a virtual painting tool using OpenCV and color detection to draw on screen using hand movements.
- **Tech Stack:** Python, OpenCV, NumPy

Diabetes Prediction:

[Diabetes Prediction Project](#)

- Developed a convolutional neural network (CNN) model using Scikit-learn on Jupyter Notebook, achieving 81% accuracy in predicting diabetes likelihood from patient data sets, improving early detection efforts.
- **Tech Stack:** Python, Deep Learning, Scikit-learn, Tensorflow

Achievements

- **Hackerrank:** 5-star in C++ [Ayush Chatterjee](#)
- **JEE MAIN 2023:** Secured All India Rank of 7638 and 99.36 percentile in JEE MAIN Test 2023 among 1.1 million candidates appearing for the test
- **IISER Aptitude Test(IAT) 2023:** Secured a prestigious All India Rank of 110 among 35000+ candidates in the IISER Aptitude Test 2023
- **WBJEE 2023:** Attained a competitive rank of 2210 in WBJEE exam 2023 among approximately 1,24,000+ candidates
- Jagadish Bose National Science Talent Search(Junior) 2021 Scholar