SABIR MALLICK

B.Tech in Computer Science & Design

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ABOUT ME

Motivated Tutor and Self-Learner. Since 2021, I have taught programming and various subjects to help students improve their grades. I am skilled at learning new topics on my own and explaining them clearly to others. I believe teaching is the best way to keep learning and growing.

EDUCATION

(2022 - present)
Dr. B. C. Roy Engineering College
B. Tech in Computer Science and Design
Current CGPA: 7.68 | Percentage: 69.30%

(2022)
KV, CMERI
CBSE (AISSCE)
Percentage: 76.80%

(2020)
Pranavananda Vidyamandir
ICSE (CISCE)
Percentage: 93.80%

SKILLS

- Office Suites (MS Office, OpenOffice)
- Unity, Unreal
- Graphic Design (Canva)
- Tools: GitHub

PROGRAMMING

- Python
- Java
- C
- C#
- HTML
- CSS
- JavaScript
- MySQL

HackerRank

LANGUAGES

- English
- Hindi
- Bengali

WORK EXPERIENCE

- **SUMMER INTERNSHIP AND TRAINING**   **JULY 2025**

  CTTC, Bhubaneswar

  Completed one month of industrial training in Artificial Intelligence and Machine Learning.
  - Built a Simple Face Recognition Attendance System

- **CO-FOUNDER | AI4ALL**   **NOV 2023 – FEB 2025**

  Launched a campaign to inform people about the value of AI and its tools.
  - Organized online meetings and offline workshops.
  - Worked as an instructor and manager during internship programs.
  - Wrote blog entries and oversaw social media accounts.

CERTIFICATES

- **Introduction to Large Language Models** (LLMs) | NPTEL, IIT Madras (2025)
- **Data Analytics with Python** | NPTEL, IIT Roorkee (2025)
- **Introduction to Graphic Design** | NPTEL, IIT Hyderabad (2025) – Elite Certification
- **Programming, Data Structures & Algorithms Using Python** | NPTEL, IIT Madras (2023) – Elite + Silver
- **Introduction to Machine Learning** | NPTEL, IIT Kharagpur (2023) – Elite Certification
- **Enhancing Soft Skills and Personality** | NPTEL, IIT Kanpur (2023) – Elite Certification
- **Ethics in Engineering Practice** | NPTEL, IIT Kharagpur (2023) – Elite Certification

- **Google Cloud Computing Foundations** | Google Cloud (2024)
- **Google Cloud Skills Badges** | Earned multiple badges in Generative AI, Security Operations, and Conversation Design (2024–Present)

MAJOR PROJECTS

Sorting Algorithm Analysis and Visualization in C
Conducted a comparative performance analysis of 8 sorting algorithms in C, measuring execution time and CPU cycles across varied input sizes (1k–50k) to generate detailed efficiency visualizations.
 - GitHub repository (https://github.com/Sabircodr/sortAlgo)

Hand Gesture Recognition
Built a real-time gesture recognition system using MediaPipe Hands, accurately mapping 5+ distinct physical signs to control System Volume, Brightness, and Window Navigation without physical contact.

Real-time Face Emotion Detection
Used MediaPipe Face Mesh to precisely track 468 facial landmarks in real-time, enabling the classification of emotions directly from a live video stream.

Sangam App
Collaborated with Subhajit Pal & Sourav Sandilya to develop an app for locating lost people in large crowds.
 - Implemented core features for real-time face matching and GPS geolocation. Presented the project at the Smart Bengal Hackathon.

OTHER PROJECTS

Discord Chatbot (Text-based Analysis)
Implemented a text-based sentiment analysis chatbot in my first year, unintentionally laying a foundation in NLP by independently deriving word extraction techniques.

VR Chess Game
Developing a virtual reality chess game in Unreal Engine with a current focus on refining the project and implementing a real-time multiplayer system.

VR Biolab & Immersiolab
Co-developed an interactive VR biolab where users can grab, rotate, and inspect individual bones of the human skeletal system. Featured as a key module on ImmersioLab, a centralized web platform developed to showcase our team's multiple immersive reality projects.
Website - (https://immersiolab.onrender.com/) (*currently in development*)

Letterland AR Designed and built a children's AR educational app using Unity and Vuforia that projects 3D animated models onto physical alphabet cards.

ACHIEVEMENTS & AWARDS

ANIMATE 2K24, IIT Bombay
Led a winning team at this **online 2D animation hackathon**, organized by FOSSEE, **IIT Bombay**. Honored at the award ceremony at Whistling Woods International, with recognition from veteran director **Vidhu Vinod Chopra** and actor Vikrant Massey.

Bug Byte League - GGS Hackathon Winner
Developed a healthcare solution, MediX Kit, an affordable and portable ECG device that monitors vital health metrics, with a team of four under the guidance of Professor Prasenjit Maji.

EXTRACURRICULAR ACTIVITIES

Arts and Crafts Club
Initiated the Arts & Crafts club in my second year and arranged its events and activities from the ground up.

Drama Coordinator, GENESIS
As Drama Coordinator, I successfully **oversaw 2 recent** stage productions, including writing and directing the most recent original play and leading a second significant production for the **college's cultural club**.

Served as **editor-in-chief** for the latest **departmental magazine** volume, overseeing content curation and design, while functioning as a **core coordinator** for club operations and event planning.