Abhijit Rabidas

Kolkata, West Bengal | abhijit.rabidas.mca@gmail.com | 7679489050 | abhijitrabidas.live
abhijit-rabidas | Abhijit-Rabidas

Education

Jadavpur University *Sept 2024 – Aug 2026*
Master of Computer Application (MCA)
- SGPA: 7.86/10

Ananda Chandra College *Oct 2020 – Aug 2023*
Bachelor of Science (Hons.) in Computer Science
- CGPA: 8.99/10

Projects

MicroDome – Coaching Platform *Site Link*
React.js, Tailwind CSS, Node.js, Express.js, MongoDB
- Developed and deployed a scalable full-stack web platform for a client to deliver coaching services for IIT JAM, CUET PG, M.Sc Entrance, and university semester exams.
- Designed a responsive user interface using React and Tailwind CSS for seamless learning experiences across devices.
- Developed secure backend APIs with Node.js and Express to manage courses, user data, and session flow.
- Integrated MongoDB for storing structured course and user data.

CollegByte – Academic & Alumni Portal *Site Link*
React.js, Tailwind CSS, Node.js, Express.js, MongoDB
- Built a full-stack platform for students to share notes, previous year question papers (PYQs), and academic resources within the department.
- Developed an interactive alumni network feature to enable seamless connection between juniors and seniors for guidance and collaboration
- Implemented responsive UI and secure backend APIs for real-time resource sharing and user engagement.

Brain Tumor Detection and Segmentation from CT Scan Images
MATLAB, SVM, HOG Feature Extraction, Otsu Thresholding, k-means Clustering
- Developed a system for detecting and segmenting brain tumors from CT scans using SVM and advanced image processing techniques
- Implemented skull stripping using intensity slicing and Otsu thresholding for preprocessing.
- Utilized SVM for classification, HOG features, k-means clustering, and super-pixel techniques for precise tumor localization and segmentation.
- Achieved accuracy of 98.51% for tumor detection and 96.72% for tumor segmentation.
- Delivered an automated solution for medical image analysis with tumor detection and segmentation.

Technologies

Languages:	C, C++, SQL
Web Development:	HTML, CSS, JavaScript, React.js, Tailwind CSS, Node.js
Database:	MongoDB, MySQL
Tools:	Git, GitHub, Postman, Vercel, Render
Coursework:	DSA, OOPs, Operating Systems, Computer Network, DBMS