

AVINASH BARIK

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Software Engineer

Software Engineer with strong foundations in Data Structures, Algorithms, and Core Computer Science, with hands-on project experience in Machine Learning and Full-Stack Development, with a proven ability to build scalable, real-world applications.

EDUCATION

M.Tech – Computer Science & Engineering | National Institute of Technology, Durgapur

CGPA: 7.49 | 2026 – Present

GATE CSE 2024: AIR < 5395

M.Sc / B.Sc – Computer Science | West Bengal State University

M.Sc: 8.57 CGPA (2022) | B.Sc: 64.13% (2020)

TECHNICAL SKILLS

Programming: C++, Python, JavaScript

Core CS: DSA, OOPS, DBMS, Operating Systems, Computer Networks

Web & Backend: React, Node.js, Express, MongoDB

Tools: Git, GitHub

PROJECTS

Bengali Handwritten Answer Script Evaluation

Python, TensorFlow, OpenCV, NLP

- Processed page-level scanned Bengali answer scripts using OpenCV-based preprocessing and segmentation to extract handwritten text regions.
- Implemented a Transformer-based Bengali Handwritten Character Recognition (HCR) model for sequence-level character recognition on segmented inputs.
- Applied NLP-based post-processing to improve transcription quality for automated evaluation.

Zerodha Clone – Stock Trading Platform

React, Node.js, Express.js, MongoDB

- Developed a full-stack stock trading simulation platform with secure authentication, wallet management, and order execution using the MERN stack.
- Implemented market and limit buy/sell orders with automatic updates to user balance, holdings, and order history.
- Built RESTful backend APIs with JWT authentication and integrated them with a React dashboard for end-to-end trading workflows.

Wordle-Plus - AI-Powered Word Game

React, JavaScript, Node.js, Express, Gemini API

- Designed a full-stack Wordle-inspired game with multiple difficulty levels and daily puzzles.
- Integrated Gemini API to generate contextual hints, enhancing user engagement.
- Built RESTful APIs and responsive UI for smooth frontend-backend interaction.

POSITIONS OF RESPONSIBILITY

- Teaching Assistant, DBMS Lab – NIT Durgapur (2025)