

# AVINASH BARIK

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## Software Engineer

Software Engineer with strong foundations in **Data Structures, Algorithms, and Core Computer Science**, complemented by hands-on experience in **AI/ML, NLP, and Full-Stack Development**. **GATE CSE 2023 AIR < 1000**, with proven ability to design scalable systems and deliver real-world solutions.

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## EDUCATION

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

CGPA: 7.49 | 2026 – Present

**GATE CSE 2023: AIR < 1000**

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

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

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## TECHNICAL SKILLS

**Programming:** Python, C/C++, JavaScript

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

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

**Tools:** Git, GitHub

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## PROJECTS

### Bengali Handwritten Answer Script Evaluation

*Python, TensorFlow, OpenCV, EasyOCR, NLP*

- Developed a deep learning-based OCR system to accurately transcribe handwritten Bengali exam answers from scanned scripts
- Built and trained the core Handwritten Character Recognition (HCR) model, enabling robust extraction of Bengali text for downstream automated evaluation

### Zerodha Clone – Stock Trading Platform

*React, Node.js, Express, MongoDB*

- Developed a full-stack stock trading simulation platform with real-time price updates and virtual portfolio management.
- Integrated live stock data APIs and Socket.io for real-time updates and order status tracking.
- Implemented secure authentication, backend APIs, and analytics dashboards for portfolio insights.

### Wordle-Plus: AI-Powered Word Game

*React, TypeScript, Node.js, Express, Gemini API*

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

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## POSITIONS OF RESPONSIBILITY

- Teaching Assistant, DBMS Lab – NIT Durgapur (2025)
- Project Team Lead, TATA ELXSI TELEPORT