

Abhijay Dhar

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EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Electronics and Communication Engineering

Expected May 2027

Chennai, Tamil Nadu

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript

Frameworks/Libraries: React.js, Next.js, Express.js, GSAP, TailwindCSS, PowerApps

Databases: MongoDB, MySQL

Machine/Deep Learning: PyTorch, TensorFlow, Supervised and Unsupervised Learning, Model Training & Evaluation

Tools/Platforms: Git, GitHub, Docker, AWS, Node.js

EXPERIENCE

Vellore Institute Of Technology

Research Intern

June 2025 – Present

Chennai, Tamil Nadu

- Developed a deep learning-based system using MediaPipe for pose landmark extraction and Neural Networks for classification of good vs. bad sitting posture.
- Implemented data preprocessing, augmentation, and model fine-tuning to achieve high performance with **99.4%** accuracy on validation data.
- Currently working on IoT integration to enable real-time posture monitoring and feedback.

TuTeck Technologies

Software Engineer Intern

May 2025 – June 2025

Kolkata, West Bengal

- Developed a Profitability App to calculate profitability at the employee, project and company levels, improving financial analysis efficiency by **40%**.
- Integrated the app with Zoho and Razorpay using RESTful APIs, automating over **85%** of manual data entry and reducing processing time by **60%**.

PROJECTS

NeuraNet | React.js, AWS (SageMaker, Lambda, API Gateway, S3)

- Led the development of a microservices-based e-commerce platform using Node.js, resulting in a **40%** increase in daily transactions within the first quarter.
- Designed and deployed a scalable RESTful API using Django and Django REST Framework, achieving a **30%** improvement in data retrieval speed.
- Implemented a real-time chat feature using WebSocket and Socket.io, enhancing user engagement and reducing response time by **20%**.

k72-xi | React.js, GSAP, TailwindCSS, JavaScript

- Developed an interactive 3D animated website using **React.js**, **GSAP**, and **Tailwind CSS**, where elements dynamically animate on scroll, hover, and page transitions, enhancing user engagement.
- Implemented reusable **React** components and modular styling with **Tailwind CSS**, reducing development time and improving scalability.
- Optimized performance by leveraging **GSAP** timelines and lazy loading techniques, improving page responsiveness by **35%**.

ACHIEVEMENTS

IBM's Qiskit: Finalist in IBM's Qiskit FallFest 2024 Hackathon, developing a quantum fraud detection system leveraging Qiskit and machine learning.

EXTRA-CURRICULAR ACTIVITIES

Google Developer Group (GDG): Contributed to technical events, hackathons, and community workshops.

Android Club: Core member, mentoring juniors and organizing Android development workshops.

Bengali Literary Society (BLS): Management committee member, coordinating cultural and literary events on campus.