ABHIJAY DHAR

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ABOUT ME

I'm a third-year Electronics and Communication Engineering student at VIT Chennai (Class of 2027), with a strong interest in Full Stack Development, Machine Learning and Data Structures & Algorithms (DSA), . As a Qiskit FallFest finalist and a former intern at Tuteck Technologies, I've gained hands-on experience with AI/ML, PowerApps, and modern web technologies.

AREA OF EXPERTISE

Java	Python	C++	TailwindCSS	ReactJS	NodeJS	ExpressJS	AWS
MongoDB	GSAP	Git	Docker	PowerApps	PyTorch	Tensorflow	

PROFESSIONAL EXPERIENCE

TuTeck Technologies, Kolkata Profitability App   **May 2025 - June 2025**

- 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%.**
- The tool is now used across **3+ departments**, helping track profitability metrics for **120+ employees** and **20+ active projects** in real time.

PROJECTS

NeuraNet   neuranet

- Developed a multi-page React application with reusable components and routing, **reducing code redundancy by 40%.**
- Integrated a Machine Learning model via Amazon SageMaker, achieving **96% inference accuracy** on real-time predictions.
- Set up AWS Lambda and **API Gateway to enable seamless, low-latency interaction** between frontend and backend **(avg. response time: 120ms)**.
- Utilized AWS S3 for storing and serving assets, **improving content load time by 30%.**

KinectPosture   kinectposture   video

- Developed a deep learning-based posture classification system (good vs. bad) using pose estimation.
- Generated a custom dataset by **extracting 132 keypoints per frame from videos** using **MediaPipe Pose**.
- Included **real-world data recorded from classroom environments** to improve generalization.
- Trained a **neural network classifier in TensorFlow** using .npy pose keypoints.
- Used techniques like dropout, batch normalization, and learning rate scheduling.
- Achieved a **validation accuracy of ~99.4**%.

GreenSphere greensphere

- Developed a full-fledged website to promote sustainable living and help users track their carbon footprint, attracting over **500 unique users in the first two months.**
- Built using **React, with JavaScript and Tailwind CSS for a responsive, component-based UI, resulting in 35% faster load times** compared to previous design versions.
- Implemented key features, including a Carbon Calculator **(used over 250+ times),** Eco Tips, Community Forum with **50+ active discussions**, and a personalized Tracker to enhance user engagement and environmental awareness.

CERTIFICATES

- Certificate for being among the finalists at IBM's Qiskit Hackathon Link
- Internhip Completion Certificate at Tuteck Technologies Link
- Certificate for the Completion of C++, Java, and Python Training at IIT Bombay Link

ADDITIONAL INFORMATION

- **Languages:** English, French, Hindi and Bengali.
- **Vellore Institute Of Technology -** B.Tech - Electronics and Communication   2023 - 2027 (Expected)
- **Delhi Public School, Ruby Park**   2008 - 2023