Abhijit Deb

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Summary — AI and Full-Stack Developer with 2+ years of Freelancing experience building intelligent, scalable web applications. Skilled in Python, Flask, React, and machine learning, with a focus on delivering efficient and user-centered solutions.

Skills

Languages Python, C, SQL
AI & Machine Learning: TensorFlow, OpenCV, scikit-learn, Deep Learning, Natural Language Processing (NLP)

Frontend Development: React, JavaScript, HTML, CSS
Backend Development: Node.js, MongoDB, MySQL, Flask
Version Control Git and GitHub
Design & Development Tools: Figma, Flutter Flow

Projects

Sign Language Recognition System
– Developed a real-time sign language recognition system capable of identifying alphabet gestures using Convolutional Neural Networks (CNN).
– Collected and preprocessed custom image datasets for hand gesture classification and optimized input pipelines using OpenCV.
– Implemented real-time video frame capture and hand region detection for accurate gesture segmentation.
– Trained and fine-tuned the deep learning model with dropout and normalization layers to enhance generalization and prevent overfitting.
– Achieved high prediction accuracy across 26 alphabet classes through data augmentation and adaptive learning rate tuning.
– Integrated the trained model with a Flask-based web app for real-time gesture recognition and prediction visualization.
– Deployed the solution locally, displaying live predictions with bounding boxes and gesture labels via OpenCV.

Campus Explorer App (Flutter Flow)
– Developed a mobile application to simplify campus navigation with an intuitive and user-friendly interface.
– Designed interactive campus maps and integrated building location data for real-time route guidance.
– Implemented dynamic search functionality to help users quickly locate departments, classrooms, and facilities.
– Utilized Flutter Flow's visual development platform for rapid UI prototyping and cross-platform deployment.
– Ensured responsive design and optimized app performance across Android and iOS devices
– Collaborated with peers to test usability, gather feedback, and enhance user experience.

Real-Time Weather Forecast Web App
– Built a responsive weather application that displays live weather updates, temperature, humidity, and forecast data for any city.
– Integrated the OpenWeatherMap API to fetch real-time weather details and dynamic background visuals based on conditions.
– Developed the front end using React and Tailwind CSS for an intuitive, clean, and mobile-friendly UI.
– Implemented search functionality with error handling for invalid or unavailable city queries.
– Deployed the app on Netlify for easy accessibility and cross-device compatibility.

Freelancing Activities

Freelance as Web Developer
– Designed and developed responsive websites for small businesses using React, Tailwind CSS, and Flask.
– Collaborated with clients to gather requirements, plan UI/UX layouts in Figma, and deliver optimized web solutions on time.
– Deployed client portfolios and landing pages using Netlify and Vercel, ensuring smooth cross-platform performance.

Education

Presidency University, Bangalore
Bachelor of Computer Applications
CGPA - 8.2

Holy Cross Higher Secondary School, Dimapur, Nagaland
Class XII (Science)