JAY BHUVA

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EDUCATION

B. Tech in Information Technology, Dharmsinh Desai University

Nadiad, Gujarat 2021 - 2025

CPI: 8.8

TECHNICAL SKILLS

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

Databases: MySQL, PostgreSQL, MongoDB, Convex

Technologies/Frameworks: React.js, Node.js, SpringBoot, Hibernate, AJAX, Next.js

Developer Tools: Git, Postman

WORK EXPERIENCE

Research Intern | Hydrology Department

Space Application Centre-ISRO, Ahemdabad, Gujarat

December 2024 - March 2025

- Built end-to-end **Python** pipelines for river discharge estimation using **satellite-derived data**, applying a **modified Manning's equation** to automate hydrological computations.
- Processed and visualized large-scale geospatial and time-series datasets (shapefiles, NetCDF, CSV) using Pandas, NumPy, xarray, Matplotlib, and geopandas.
- Applied statistical methods including **RMSE** and **KGE** to validate outputs against in-situ data, contributing to data-driven decision making.
- Automated data matching and reach-wise correlation using Python scripting, focusing on reproducibility and efficiency.

PROJECTS-PUBLICATION

InterviewEdge: AI-based Interview Assistant (IEEE Research Paper)

- Technologies used: ReactJS, Flask, Python, LangChain, RAG, LLaMA Model, ChromaDB
- Co-developed an AI-powered interview assistant to analyze spoken technical responses (Java, C++, C) and provide automated feedback on accuracy, completeness, and clarity.
- Engineered backend infrastructure to support model inference and integrated Retrieval-Augmented Generation (RAG) using LLaMA 3.2-3B-Instruct, improving evaluation consistency and reducing bias.
- UOptimized recruiter assessment processes, improving candidate readiness evaluation accuracy by 76.71(GitHub)

BillBuddies – AI-Powered Expense Management System

- Technologies used: Next.js, React.js, Convex, Gemini (GoogleAI)
- Built a full-stack real-time expense manager to dynamically **split individual and group expenses** (equal, percentage, or custom) with debt minimization logic.
- Integrated **Gemini AI** to generate personalized insights and monthly expense summaries; automated reminders via **Inngest** and **Resend**. (Live Demo)

TeamTrack - Effortless Employee Management

- Technologies used: Java Spring Boot, React.js, MySQL, Tailwind CSS
- Built a **full-stack employee management system** enabling seamless creation, editing, and deletion of employee profiles for company administrators using **React.js**, **Spring Boot**, and **MySQL**.
- Designed a **modern and responsive UI** using **Tailwind CSS**, ensuring a **intuitive user experience** for easy management of employees. (GitHub)

CERTIFICATIONS

- AWS Academy Graduate AWS Academy Cloud Foundations View Badge
- AWS Academy Graduate AWS Academy Machine Learning Foundations View Badge
- Stanford University and DeepLearning.AI Supervised Machine Learning: Regression and Classification View Certificate
- Stanford University and DeepLearning.AI Advanced Learning Algorithms View Certificate