

Daksh Bangoria

M.Tech in Information and Communication Technology - Software Systems

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Education

Dhirubhai Ambani University

CPI: 8.44

2025 - Present

Gandhinagar, Gujarat

Charotar University of Science and Technology (B.Tech Computer Engineering)

CPI: 9.39

2021 - 2025

Anand, Gujarat

Experience

Space Applications Centre, ISRO

June 2024 – May 2025

Research Intern

Ahmedabad, Gujarat

- Integrated Landsat, Sentinel-2 snow cover data and ERA5 climate reanalysis into SPHY hydrological model to simulate 43-year (1981–2024) runoff patterns across 10 snow/glacier-fed basins in Leh-Ladakh.
- Implemented LSTM and XGBoost models for discharge forecasting, achieving R^2 of 0.89 and improving prediction accuracy by 25%, enabling scalable real-time water resource management.
- Collaborated with hydrologists and data scientists to deliver a forecasting system supporting climate adaptation and water security across the Hindu Kush Himalaya region.

Projects

Voice Requirement AI System | Python, Streamlit, Whisper, Llama 3.2, Ollama, NLP



- Built an AI system that converts spoken input into structured software requirements using speech recognition and LLMs.
- Integrated Whisper for transcription and Llama 3.2 via Ollama for automated requirement extraction and elicitation.
- Developed a real-time Streamlit app with fully local processing for privacy-focused requirements engineering.

Roopali Fashion E-Commerce Web App | Next.js 15, React, TypeScript, Supabase, Vercel



- Built a full-stack fashion e-commerce platform using Next.js and TypeScript with responsive UI and dynamic products.
- Implemented secure authentication, admin dashboard, and product management features.
- Designed reusable components with theme support and deployed on Vercel.

Technical Skills

Languages: C++, Python, Java, SQL

Frameworks: PyTorch, TensorFlow, HTML, CSS, Bootstrap

Databases: PostgreSQL, MySQL, MonetDB

Data Science: NumPy, Pandas, Matplotlib, Statistical Analysis, Data Visualization

Soft Skills: Research and Analysis, Communication, Time Management, Team Collaboration, Leadership

CS Fundamentals: Data Structures, Algorithms, Operating Systems, DBMS, Computer Networks, Software Engineering

Areas of Interest: Distributed Database, Machine Learning, System Design, DSA-Problem Solving

Position Of Responsibility

- **Teaching Assistant – Operating Systems and Basic Electronics**, DAU (Jul 2025 – Present): Facilitated practical learning in Operating Systems and Basic Electronics Circuits for 200+ students, strengthening technical foundations.
- **Member – Business Club**, DAU (2025 – Present): Organized entrepreneurship and tech-focused events, manage outreach and operations, and support execution of innovation-driven campus initiatives.
- **Project Manager – Charusat Learning & Development Club** (Mar 2023 – Jun 2023): Led an 8-member team to deliver 3 technical workshops, boosting engagement by 40%, while managing timelines and coordination using Agile practices.

Achievements

- Secured 1st place in Google Developer Student Clubs (GDSC) Ideathon focused on Jetpack Compose.
- Completed online professional Google Advanced Data Analytics Certificate on Coursera.
- Completed online professional Google Project Management Certificate on Coursera.