

# Daksh Bangoria

M.Tech in Information and Communication Technology - Software Systems

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## Education

<b>Dhirubhai Ambani University</b> CPI: 8.44	2025 - Present Gandhinagar, Gujarat
<b>Charotar University of Science and Technology (B.Tech Computer Engineering)</b> CPI: 9.39	2021 - 2025 Anand, Gujarat

## Experience

<b>Space Applications Centre, ISRO</b> Research Intern	June 2024 – May 2025 Ahmedabad, Gujarat
<ul style="list-style-type: none"><li>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.</li><li>Implemented LSTM and XGBoost models for discharge forecasting, achieving <math>R^2</math> of 0.89 and improving prediction accuracy by 25%, enabling scalable real-time water resource management.</li><li>Collaborated with hydrologists and data scientists to deliver a forecasting system supporting climate adaptation and water security across the Hindu Kush Himalaya region.</li></ul>	

## Projects

<b>Voice Requirement AI System</b>   Python, Streamlit, Whisper, Llama 3.2, Ollama, NLP	🔗
<ul style="list-style-type: none"><li>Built an AI system that converts spoken input into structured software requirements using speech recognition and LLMs.</li><li>Integrated Whisper for transcription and Llama 3.2 via Ollama for automated requirement extraction and elicitation.</li><li>Developed a real-time Streamlit app with fully local processing for privacy-focused requirements engineering.</li></ul>	
<b>Roopali Fashion E-Commerce Web App</b>   Next.js 15, React, TypeScript, Supabase, Vercel	🔗
<ul style="list-style-type: none"><li>Built a full-stack fashion e-commerce platform using Next.js and TypeScript with responsive UI and dynamic products.</li><li>Implemented secure authentication, admin dashboard, and product management features.</li><li>Designed reusable components with theme support and deployed on Vercel.</li></ul>	

## 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): Organize 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.