

# Kruti Shah

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## EDUCATION

- 2025 - 2027 Master of Science in Computer Science  
(CGPA: 3.58/4) at **University Of Colorado Boulder**
- 2021 - 2025 Bachelor of Technology in Computer Engineering with Honors in Intelligent Computing  
at **Dwarkadas J Sanghvi College Of Engineering** (CGPA: 9.05/10.0)

## EXPERIENCE

- AI Intern** | One Oath Foundation Aug 2023 - Sep 2023
- Automated an assessment system using KNN for response classification and FPDF for instant report generation
  - Built a ML-based recommendation system using Deep Reinforcement Learning to suggest personalized developmental steps for children, improving accuracy by 12%.
- Python Intern** | Emkay Global Financial Services Limited July 2023 - Sep 2023
- Created a real-time alert system using Python for algorithmic orders without an identifier, featuring dynamic notifications, order export, and query search by symbols, client ID, and user batch, processing inputs every 15 seconds
  - Engineered an application to generate order-to-trade ratios from compressed transaction files, automating and customizing email reports of the results.
  - Conducted a stock prediction study on Infosys using LSTM, forecasting a 5–7% rise pre-earnings and 2–3% drop post-earnings.
- Data Analyst** | NOQ's Digital Pvt Ltd June 2023 - July 2023
- Managed and maintained databases, restructuring raw data into organized formats to enable seamless analysis and reporting
  - Designed data models to uncover customer trends and behavioral patterns, supporting strategic business decisions
  - Created dashboards using Google Sheets and Power BI, automating data extraction from multiple sources for real-time insights

## SKILLS

- Languages** : C, C++, HTML, CSS, JavaScript, SQL, Python, JAVA, R
- Frameworks** : Django, Flask, ReactJS, Bootstrap, Tailwind, CSS
- Tools** : MongoDB, MySQL, Google Cloud, Docker, Figma, Canva, Git, Github, Power BI, MATLAB, Firebase
- Soft Skills** : Event Management, Content Writing, Time Management
- Machine Learning** : NLP, Numpy, Pandas, Matplotlib, Tensorflow, SciKit Learn, PyTorch, OpenCv

## PROJECTS

- Style Sync: AI Driven Fashion Personalization Platform** [Link](#)
- Built an interactive platform with 3D Virtual Try On and personalized recommendations using ReactJS, Flask, and MongoDB, integrating DRM, MTM, and TFM models for accurate garment fit and texture rendering.
  - Built a color analysis module using MTCNN, Dlib, and OpenCV to recommend apparel based on user skin tone.
  - Designed a trend voting feature with community driven input, leveraging ResNet50 with TensorFlow to suggest clothing aligned with popular preferences.
- Boulder Move: Smart Multimodal Trip Planning System** [Link](#)
- Developed a cloud-native multimodal trip planning platform with custom GTFS/RAPTOR transit routing, OSMnx-based pedestrian paths, using React and FastAPI, minimizing dependence on Google Maps. real-time weather and event congestion awareness with an XGBoost-based on-time arrival prediction service on Google Cloud Run, deploying routing on Compute Engine with Dockerized ML inference using Cloud Build, Artifact Registry, and Cloud Storage.
- HazardScout: IoT-Enabled Gas Leakage Detection & Emergency Response Robot** [Link](#)
- Built an autonomous IoT powered robot with a magnetic, fidget-spinner-inspired mechanism for real-time gas leak detection across complex industrial pipelines.
  - Integrated MQ-5 gas sensor, DHT11 for temperature/humidity, ultrasonic obstacle avoidance, and a high-resolution camera with LED torch for low-light inspection.
  - Enabled cloud-based monitoring via Wi-Fi with real-time dashboard access and Twilio-powered SMS alerts for critical events.
  - Utility Patent: Patent No. 202521045231 (Published), Design Patent: Application No. 458534-001 (under review at IP India)

## EXTRACIRCULAR ACTIVITIES

- Advanced to the top 70 out of 29,000+ teams, progressing to the pre-finale round of Mynta HackerRamp WeForShe'24
- Qualified in the top 6 out of 200 teams in the Logithon Hackathon (2024) organized by Softlink Global Pvt. Ltd.
- Appointed as OC Member for the Internship Fair at Dwarkadas J. Sanghvi College of Engineering (2024) under the ACM committee; onboarded companies and facilitated coordination between them and students
- Recognized as one of the top 60 students across all departments; completed the JPMorgan Chase College to Corporate program (2022-2024), gaining valuable experience that bridged academia with the corporate world
- Published a research project on Explainable AI (XAI) for pose detection and correction in *Educational Administration: Theory and Practice*, Vol. 30, Issue 5, May 2024 (e-ISSN: 14735-14741)