Krishiv Khambhayata

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Education

SAL Engineering and Technical Institute — Ahmedabad, Gujarat
Bachelor of Engineering (B.E.), Computer Engineering — *Jun. 2023 — expected Jul. 2027*

Indian Institute of Technology, Madras — Chennai, Tamil Nadu
Diploma in Programming — *Sept. 2023 — expected Jan. 2025*

Technical Skills

Languages: Python, C, SQL, JavaScript, HTML, CSS
Frameworks: Flask
Libraries: SQLAlchemy, NumPy, OpenCV, Pillow, Matplotlib, PyTorch (Beginner)
Tools/Technologies: Git/GitHub, Visual Studio Code, Jupyter Notebook, WSL, MySQL, Postman, Jinja2

Projects

Salt and Prepper | *Python, Flask, SQLAlchemy, Jinja2, HTML, CSS, JavaScript, Bootstrap* — Feb. 2025 — Present

- Developed a full-stack quiz platform with distinct user and admin functionalities
- Implemented user authentication, role-based access control, and session management using Flask
- Designed relational database schemas to optimize Object-Relational Mapping (ORM) operations
- Built dynamic, server-rendered pages using the Jinja2 template engine
- Added features like quiz management, score tracking, search/filter options, and interactive data visualizations using Chart.js

Resume-War | *Python, Flask, Mira Flows SDK* — Jan. 2025 — Jan. 2025

- Built an AI-powered resume evaluation platform with dynamic scoring and competitive leaderboard
- Integrated LLM APIs using Mira Flows Network by writing a Flow that takes resume data as input and provides detailed feedback/review
- Implemented strict scoring constraints within the Flow, with results reflected on the Leaderboard

PSR Image Denoising | *Python, PyTorch, NumPy, SciKit-Image* — Sept. 2024 — Dec. 2024

- Presented at national Smart India Hackathon 2024, winning 1st place under ISRO
- Developed a CNN model based on the UNet architecture to denoise images of Permanently Shadowed Regions (PSR) on the lunar surface for scientific analysis.
- Pre-processed sunlit OHRC images by adding artificial noise mimicking PSR characteristics, followed by normalization to improve convergence.
- Trained on a custom dataset of 600 OHRC images and corresponding high-resolution unprocessed images as Ground Truth.

Project Selene | *Python, Flask, NumPy, Pillow, Trimesh, Three.js* — Aug. 2024 — Sept. 2024

- Developed full-stack web application to convert OHRC lunar images into interactive 3D terrain models
- Built image processing pipeline using NumPy/Pillow for grayscale extraction and Trimesh for 3D terrain generation

Achievements

Smart India Hackathon 2024 — 1st Place
Emerged as Winner in India's biggest national-level hackathon (SIH'24) under ISRO as member of Team Chandrakriti for Problem Statement `PS1732`

SAL IDEAthon 2024 — 2nd Place
Presented "*Project Selene*" at inter-branch *IDEAthon* organized by SAL-SSIP on 22nd August 2024

Tic Tech Toe 2024 — Top 15
Finalists at *Tic Tech Toe 2024* hosted by DAIICT University among 150 teams, developing a Health Tracker application

Certifications

Foundation in Programming and Data Science — September 2024
Awarded by Indian Institute of Technology Madras for completing Foundation Level in Programming and Data Science

Postman API Fundamentals Student Expert Certification — November 2024
Certified in API fundamentals including GET/POST/PATCH/DELETE, Headers, Query Parameters, and API Key Authorization