KRISHIV KHAMBHAYATA

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TECHNICAL SKILLS

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

PROJECTS

Salt and Prepper ⌂ % | *Python, Flask, SQLAlchemy, Jinja2, JavaScript, Bootstrap*　　　Feb. 2025 — Apr. 2025
- Developed a full-stack quiz platform with user authentication, distinct user and admin 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.

Career / Conquer ⌂ | *Python, Tensorflow, Flask, Mediapipe, GemmaAI*　　　Apr. 2025 — Present
- Developed a mock interview platform featuring real-time verbal interaction using speech-to-text and text-to-speech scripts.
- Integrated Gemma API to dynamically generate questions per user based on resume inputs.
- Implemented webcam-based behavior analysis to track eye contact, expressions, and speech.
- This allows the project to detect drop in confidence during the mock interview and provide an evaluation at the end.

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 Moon's Permanently Shadowed Regions (PSR).
- Pre-processed sunlit OHRC images by adding artificial noise mimicking PSR characteristics.
- 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.
Tic Tech Toe 2025　　　2nd Place
Emerged as Winner at *TTT '25* hosted by DAIICT University amongst 175 teams, developing an Interview Training tool.
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 *TTT '24* hosted by DAIICT University amongst 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.

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. 2026*