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Projects

AI-Powered Facial Aging Simulation

Ongoing

- Developing a CycleGan-based AI model being trained on 86k facial images (FFHQ, AgeDb, CelebA).
- Engineering 12 adjustable aging parameters (wrinkles, hair graying, facial sagging) using OpenCV and Dlib's 68-point facial landmark detection to ensure precise effect localization.
- Deploying an interactive Streamlit web app with real-time sliders for instant aging previews, integrating a two-step AI pipeline (face detection → age prediction → aging effects).

Tech Stack: Python, PyTorch, TensorFlow, OpenCV, Dlib, Streamlit, NumPy, PIL, Google Colab

Plant Disease Detection using Leaf Images

Feb 2025

- Developed a CNN-based deep learning model that achieved 90% accuracy on 6,000+ leaf images, enhancing disease detection reliability.
- Engineered 38 domain-specific features, including leaf texture, color histograms, and edge detection, improving classification performance.
- Deployed an interactive Flask dashboard with real-time image upload and classification, providing instant disease detection feedback.

Tech Stack: Python, TensorFlow/Keras, Scikit-learn, OpenCV, Pandas, NumPy, Flask, Streamlit

Zomato Rating Prediction

Dec 2024

- Trained a machine learning model with 85% accuracy, analyzing 500,000+ customer reviews and geolocation data.
- Engineered 15+ features, such as sentiment scores and location density, increasing model accuracy by 10%.
- Developed an interactive Flask & Streamlit dashboard enabling real-time user input and visualization.

Tech Stack: Python, Scikit-learn, Pandas, NumPy, Flask

Certificates

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| Python, Data Science & Machine Learning Integrated Course - Cipher Schools | Jul 2024 |
| ChatGPT Advanced Data Analysis – Vanderbilt University | May 2024 |
| Build AI Apps with ChatGPT, Dall-E, and GPT-4 - Scrimba | May 2024 |
| Generative AI with Large Language Models - DeepLearning.AI, AWS | Apr 2024 |
| Introduction to Large Language Models – Google Cloud | Feb 2024 |
| Generative AI for Everyone - DeepLearning.AI | Feb 2024 |

Technical Skills

- Languages & Technologies:** Python, JavaScript, HTML, CSS, C, C++
- Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, OpenCV, Dlib, Streamlit, Flask, Tailwind CSS, Bootstrap, Node.js
- Databases:** MySQL, MongoDB
- Machine Learning & AI:** Deep Learning (CNNs, GANs/CycleGAN), Image Processing, Feature Engineering, NLP (Sentiment Analysis), Model Optimization, Model Deployment
- Tools & Platforms:** Git, GitHub, Google Colab, RESTful API Integration
- Soft Skills:** Leadership, Strategic Thinking, Communication, Team Collaboration, Analytical Thinking, Adaptability, Project Management, Problem-Solving,

Achievements

Runner-Up | Valorant Intra-University Tournament | In-Game Leader (IGL)

Oct 2024

- Commanded a 5-player team as IGL, executing real-time tactical decisions in high-pressure scenarios.
- Achieved runner-up position in a university-wide Valorant tournament with 20+ competing teams.

Secured ₹1,00,000 Seed Funding | GuruKuleD (Teacher-Centric Platform)

Jan 2024

- Led a 4-member team, developing a working prototype and pitching a scalable business model to investors.
- Secured ₹1,00,000 in seed funding through a competitive startup event, recognized for innovation in digital education.

Education

Lovely Professional University Punjab

Computer Science and Engineering — CGPA: 7.8

Since Aug 2022

Jalandhar, Punjab

Sri Chaitanya Junior Kalasala, Attapur

Intermediate — Percentage: 86%

Jun 2022

Hyderabad, Telangana

Oasis School, Raidurg

Matriculation — Percentage: 87%

Mar 2020

Hyderabad, Telangana