PROJECT DOCUMENTATION

CODECLAUSE INTERNSHIP

Project ID - #CC3595
Project Title - Image Recognition with OpenCV
Internship Domain - Artificial Intelligence Intern
Project Level - Entry Level
Assigned By- CodeClause Internship
Assigned To- Saravanan Veerakumar

Start Date - 01 Dec 2024	**End Date -** 31 Dec 2024

Project Details-

Aim -

Build a simple image recognition system using OpenCV.

Description-

Use OpenCV to process images and implement basic object detection or facial recognition. Explore different image processing techniques.

Technologies-

Python, OpenCV
You can use other technologies that you know.

What You Learn-

Image processing basics, OpenCV library, and simple object detection.

Project ID - #CC3596
Project Title - Facial Recognition System
Internship Domain - Artificial Intelligence Intern
Project Level - Intermediate Level
Assigned By- CodeClause Internship
Assigned To- Saravanan Veerakumar

Start Date - 01 Dec 2024	**End Date -** 31 Dec 2024

Project Details-

Aim -

Develop a facial recognition system.

Description-

Create a program that can identify and verify faces in images or video streams. Use pre-trained models or train your own.

Technologies-

Python, OpenCV, Dlib, or face recognition libraries
You can use other technologies that you know.

What You Learn-

Face detection, feature extraction, biometric systems.

Project ID - #CC3597
Project Title - Road Lane Detection by Processing Video
Internship Domain - Artificial Intelligence Intern
Project Level - Golden Level
Assigned By- CodeClause Internship
Assigned To- Saravanan Veerakumar

Start Date - 01 Dec 2024	**End Date -** 31 Dec 2024

Project Details-

Aim -

Develop an intelligent system that can detect and highlight road lanes in a video stream, aiding in autonomous vehicle navigation or driver assistance systems.

Description-

This project focuses on creating a computer vision system capable of identifying and marking road lanes in real-time video footage. The system will utilize image processing and computer vision techniques to analyze each frame of the video, identify lane markings, and draw lines representing the detected lanes. The ultimate goal is to enhance road safety, especially in the context of self-driving cars or advanced driver assistance systems (ADAS).

Technologies-

Python, OpenCV, Deep reinforcement learning frameworks
You can use other technologies that you know.

What You Learn-

Computer vision, Computer Vision, Video Processing.

Project ID - #CC3598
Project Title - Personality Prediction System via CV Analysis
Internship Domain - Artificial Intelligence Intern
Project Level - Golden Level
Assigned By- CodeClause Internship
Assigned To- Saravanan Veerakumar

Start Date - 01 Dec 2024	**End Date -** 31 Dec 2024

Project Details-

Aim -

Develop an AI-driven system that predicts an individual's personality traits by analyzing their Curriculum Vitae (CV) or resume.

Description-

This project aims to create a sophisticated personality prediction system that utilizes natural language processing (NLP) and machine learning techniques to analyze the textual content of CVs. The system will extract relevant information from resumes, such as educational background, work experience, skills, and achievements. By employing sentiment analysis, linguistic pattern recognition, and personality trait models, the system will predict personality characteristics like extroversion, conscientiousness, openness, agreeableness, and neuroticism.

Technologies-

Python, OpenCV, Deep reinforcement learning frameworks
You can use other technologies that you know.

What You Learn-

Computer vision, reinforcement learning.

Instructions-

1. There are no technology restrictions for project development. You are free to use any technology you are familiar with..

2. Ensure timely submission of projects before the deadlines.

3. There are no restrictions on completing entry-level and intermediate projects.

4. Avoid copying and pasting code. Be original in your submissions.

5. Upon completion, submit your all projects on app.internship.codeclause.com.

Eligibility Criteria:

1. Completion of one project makes you eligible for a certificate.

2. Completion of two projects (entry-level and intermediate) qualifies you for a certificate and Letter of Recommendation (LoR).

3. Completion of two projects (entry-level and intermediate) with one golden project makes you eligible for swags verification.

4. It only eligibles to you for swags verification it doesn't means that you are eligible for swags.

5. There are two golden projects you need to do any of them.

6. There is not technology restrictions for projects.

7. If project found copied then you are eligible for swgas.

8. If golden project needs to be dynamic and proper working.

9. Console based projects are not eligible for swags. Proper Ui is required to eligible for swags.

10. Needs to post video of demo of golden project on LinkedIn and it should includes only the output of project no need to share the code.