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SAJEED HUSSAIN MOHAMMED ABDUL

Nationality: Indian **Date of birth:** 23/04/1996 **Gender:** Male **Phone number:** (+33) 745592483

Email address: sjdhsn2396@gmail.com

LinkedIn: https://www.linkedin.com/in/sajeed-hussain-mohammed-abdul-630b78204/

Home: 6 Rue Jenner, 71200 LE CREUSOT (France)

ABOUT ME

I am a highly motivated and ambitious individual with a strong academic background in computer science, data science, and computer vision. I hold a Master's degree in Data Science and am currently pursuing a Master's in Computer Vision and Robotics to deepen my expertise in the field. My educational journey has equipped me with a solid foundation in programming, machine learning, data analysis, and image processing.

EDUCATION AND TRAINING

Masters in Computer Vision and Robotics

Universite de Bourgogne [15/09/2024 – Current]

Country: France

Masters in Data Science

Gokaraju Rangaraju institute of Engineering and Technology [15/12/2020 – 15/01/2023]

Country: India

Bachelor's in Computer Science

Muffakam jah College of Engineering [15/06/2016 – 15/07/2019]

Country: India

Amazon web services

AWS cloud practitioner Certification

City: Hyderabad | **Country:** India | **Website:** https://www.credly.com/badges/a2954c80-4f6c-494d-b156-b849671b6f0f

Amazon web services

AWS Machine learning Foundation

City: Hyderabad | **Country:** India | **Website:** https://www.credly.com/badges/00ab4ae7-cef5-4699-a43c-ddc96f510580

Amazon web services

AWS re/start Graduate

City: Hyderabad | **Country:** India | **Website:** https://www.credly.com/badges/fac1d32e-5040-46f8-a05e-768af664f060

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

French

LISTENING A1 **READING** A1 **WRITING** A1

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** A1

Telugu

LISTENING C2 **READING** C2 **WRITING** C1

SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2

Hindi

LISTENING C2 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

Road Lane Line Detection

Using Deep Learning To Predict Plant Growth and Yield in Green House Environment

PROJECTS

Road Lane Line Detection

Road lane line detection is a crucial task in the field of computer vision, particularly for autonomous vehicles and advanced driver-assistance systems (ADAS). It involves the identification and tracking of lane markings on the road to help vehicles stay within their lanes or make safe driving decisions. The goal is to accurately detect lane boundaries under various road conditions, lighting, and environmental factors, such as fog, rain, or night driving.

Using Deep Learning To Predict Plant Growth and Yield in Green House Environment

The application of deep learning in agriculture, particularly for predicting plant growth and yield in greenhouse environments, is an emerging area of research that leverages advanced machine learning techniques to enhance farming efficiency and optimize resource use. This approach involves using deep learning models to analyze a wide range of environmental data and plant-related parameters to predict how plants will grow and their eventual yield under controlled greenhouse conditions.

Satellite Imagery Analysis

This project leverages **Sentinel-2 satellite imagery** and **machine learning** to detect vegetation, water bodies, and urban structures. The goal is to extract actionable insights for **environmental monitoring, agriculture, and urban planning** using geospatial tools, image-processing algorithms, and deep learning techniques.

SFM Structure from Motion 3D Reconstruction from Multiple 2D Images

Structure from Motion (SfM) is the process of estimating the three-dimensional structure of a scene from a set of two-dimensional images. By analyzing multiple images of a static scene taken from different viewpoints, SfM simultaneously recovers the camera's motion (poses) and a sparse 3D point cloud of the scene. The end result is a set of camera extrinsics (rotations and translations for each image) and a reconstructed 3D model of points up to an arbitrary scale. SfM has broad applications in3D reconstruction, robotics, and augmented reality.

Stereo Camera System and 3D Point Cloud Reconstruction

This project implements a full stereo vision pipeline using two parallel webcams to generate a **dense 3D reconstruction** of a scene using OpenCV. It covers image capture, camera calibration, stereo geometry estimation, image rectification, disparity map generation, feature matching (optional), and triangulation to reconstruct a dense 3D point cloud.

Capillary Segmentation and Quantifi cation in Nailfold Capillaroscopy
This Project presents a robust and fully interpretable classical computer vision pipeline for the segmentation and quantification of microvascular capillaries in high-resolution nailfold capillaroscopy images. The proposed system systematically addresses the challenges of variable illumination, capillary orientation, and low signal-to-noise ratio without relying on data-driven training

MANAGEMENT AND LEADERSHIP SKILLS

Python

Machine learning

Data analysis

AWS Cloud

Open CV

Linux

Networking

Computer Vision

ROS