AMAN KUMAR MALLIK

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EXPERIENCE

Lumachain

AI Computer Vision Engineer

August 2022 - Present

Developing a complex computer vision-based Artificial Intelligence platform in a highly collaborative environment and perform tracking individual items of food including its provenance and condition as it moves through the supply chain, with an initial focus on proteins.

Lumachain

Computer Vision and Machine Learning Intern

March 2021 - August 2022

Worked on projects that involve mainly object detection, camera calibration, tracking, action detection, anomaly detection, and various image preprocessing methods

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SpaceML

Contributor

December 2021 - Present

Working on Research with Citizen Scientists for the Advancement of Space Technology for NASA

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birupakshyamahapatra.com

Computer Vision Engineer Intern

October 2020 - November 2020

Worked on the implementation of deep learning applications on web browser using various machine learning libraries.

Technocolabs

Computer Vision Engineer Intern

September 2020 - October 2020

Worked on a project for detecting real time whole body pose in wild using landmark detection and pose estimation.

EDUCATION

Bachelor of Engineering

Dayananda Sagar College of Engineering

July 2018 – August 2022 Bangalore, India

Information Science CGPA: 9.1

XI-XII (Senior Secondary)

Delhi Public School, Nigahi

March 2016 - March 2018 Singrauli, India

Percentage: 86.8

SKILLS

- Python SQL C++ JavaScript
- TensorFlow Node.js TensorFlow.js OpenCv.js Keras Pytorch OpenCv Docker Blockchain

PROJECTS

Remote Basic Health Checkup

- Remotely replicate intrinsic body movements in 3 dimensional space precisely and in real time.
- Trained combination of deep learning models to extract the pre-described key points from an image.
- Set up cloudflare tunnel to transfer the data remotely in realtime with minimum latency
- Funded by IISc. Bengaluru and also chosen for Honourable Mention by the ARTPARK program

Infants Face Verification

- Face verification techniques for the new born babies to prevent the exchange in the hospital.
- Used Orthogonal Combination of Local Binary Coded Pattern to extract the facial features of a baby.
- Build on a Dual Stream CNN to get the embeddings from the face of a baby.
- Funded by Indian Council of Medical Research

SeeVid - Github Link

- Provides the timestamps of the content (provided as keyword) in the video
- Recognizes the text in the video

ACHIEVEMENTS

- Being part of a **Focus Group on AI for Natural Disaster Management,** our team presented our work in front of **ITU, WMO and UNEP**
- Our team project has been selected for **Honourable Mention** by **ARTPARK - IISc Bengaluru**
- **Nominated** for **IISc.** and **ICMR** funded projects
- **India Finalist** Microsoft Imagine Cup 2021
- **4 stars** in problem solving **Hakerrank**
- Has successfully received the **Certificate** in **Problem Solving** in **Hakerrank**
- Has successfully received the **Certificate** in **Python Programming** by **Microsoft Technical Association(MTA)**

PUBLICATIONS

Towards Natural Interaction: Hand Landmark Detection for Robotic Arm Control - Link
International Journal of Membrane Science and Technology

LINKS

- Portfolio
- Neural Style Transfer Using PyTorch
- Depth Perception in Computer Vision
- Face Recognition with Javascript