Chandan Kumar

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Chennai, India

EDUCATION

Integrated B.Tech in Mechanical Engineering and M.Tech in Mechanical Engineering with Specialization in Advance Manufacturing
Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram
08/2019 - 06/2024 *8.0/10*

Courses
- Joy of Computing using Python
- Data Analytics
- Deep learning
- Deep Learning for Computer Vision

XII (Senior Secondary), Science
KVM Public School
04/2016 - 04/2018 *73.4%*

WORK EXPERIENCE

Machine Learning Intern
ReVx Energy
02/2023 - Present

Achievements/Tasks
- Working on data received via Battery Management System deployed on a electric vehicle for estimating State of Health and Remaining Useful Life of a battery.
- Training, testing and forecasting data on models like AR, VAR, ARIMA as our data are time dependent

Robotics Software Developer
Mars Rover Society, IIITDM Kancheepuram
12/2021 - 11/2022

Achievements/Tasks
- Build 2D and 3D maps via stereo-camera in simulation for transversal of rover on Mars Yard.
- Our team secured 1st rank in Asia (2nd globally) in qualification round A of the ERC-2022(Remote Edition) .

Research Intern
Aero2Astro
05/2021 - 11/2021

Achievements/Tasks
- Trained and Tested various pre-trained CNN models on our custom dataset for detecting defects and damages on Wind Turbines.
- Fine tuned each model for achieving better trade off between accuracy and FPS for real time inspection.

SKILLS & FRAMEWORK

Python | Machine Learning | Deep learning | Image Processing | Computer Vision | OpenCV | PyTorch | Scikit-Learn | Numpy | Pandas | Matplotlib | Linux | Git | Robot Operating System | Google Colab

PERSONAL PROJECTS

Human Action Recognition using CNN and LSTM
- The model utilizes Convolutional Neural Networks (CNN) and Long Short-Term Memory (LSTM) networks to process the input data and make predictions about the action being performed on short videos.

Face Recognition for Attendance using OpenCV
- It involves the development of a system that uses opencv library to detect face to take attendance in a classroom or workplace setting.

CERTIFICATES

Deep Learning (08/2022 - 10/2022)
NPTEL- IIT Madras

Machine Learning with Python-From Linear Models to Deep Learning (07/2020 - 11/2020)
From MITx

Introduction to AI and IoT (04/2020 - 06/2020)
IIT Kanpur

LANGUAGES

Hindi
Native or Bilingual Proficiency

English
Professional Working Proficiency

INTEREST

Badminton | Geopolitics | Travelling