# 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).

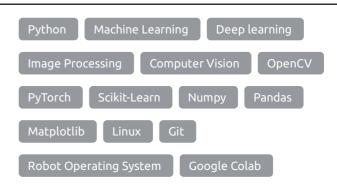
# Research Intern

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**



# 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 opency 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