

Deepak Kumar Jain

Machine Learning Engineer

✉ deepakjain3527@gmail.com

📍 Noida, India

☎ +919058157010

🌐 [linkedin.com/in/deepak-kumar-jain-b99678273](https://www.linkedin.com/in/deepak-kumar-jain-b99678273)

EDUCATION

Executive PostGraduate in AIML IIIT Bangalore

09/2023 - Present

Bachelor of Technology (B.Tech) Babu Banarsi Das Institute of Technology

08/2014 - 07/2018

Percentage: 75%

WORK EXPERIENCE

Machine Learning Engineer GarudaUAV Soft Solutions Pvt Ltd

08/2022 - Present

Achievements/Tasks

- Build a model to **Classify Customer Complaints** based on products/services for quick issue resolution. Apply topic modeling (NMF) of **NLP** & tokenization, stop words removal, stemming/lemmatization) on Unlabeled data to categorize tickets into 5 clusters, Use labelled data from topic modeling to train supervised models
- Engaged in **T & D Line projects with NTPC and UPPCL**, focusing on detecting anomalies and segmenting insulators through the utilization of Python & CNN algorithms.
- Participated in **Safety and Surveillance** initiatives, utilizing Deep Learning techniques, Python and YOLOv8 technology to detect individuals and assess safety gear compliance, including gloves, helmets and identifying 22 other anomalies.
- Contributed to the **Solar Project at NTPC**, developed and trained a custom object detection model using SAHI YOLO for the efficient identification of defects in solar panels. Implemented defect detection in TIFF files, providing precise latitude and longitude coordinates to users for accurate localization of panel module issues. Currently hosted on AWS.
- Worked on a **Face Recognition Attendance System** in which used YoloV7 algorithm for person detection and Strong sort algorithm for tracker. We also used Face Recognition Library along with the MySQL Database using FastAPI. The UI was of StreamLit. TechStack: Python, Machine Learning, Deep Learning.

SKILLS

Machine Learning

Natural Language Processing(NLP)

PyTorch

TensorFlow

Deep Learning

Python

Panda

Large Language Models(LLMs)

Computer Vision

NumPy

Generative AI

FastAPI

Data Visualization

Exploratory Data Analysis (EDA)

MySQL

PERSONAL PROJECTS

Natural Language Processing Mini Projects

- Implemented few mini projects of NLP like Spelling correction, Spam detection, Name Entity Recognition.

Violation of tripling in bike and helmet

- Implemented algorithms to determine the presence of individuals exceeding a threshold of two and assessed their compliance with safety regulations such as wearing helmets.
- Tech Stack: Deep Learning, Python, Machine Learning, YoloV8.

Lending Club Case Study

- Lending Club is a finance company which specialises in lending various types of loans to urban customers. When the company receives a loan application, the company has to make a decision for loan approval based on the applicant's profile.
- We had analyze the data using Univariate, bivariate and multivariate representation

CERTIFICATES

Programming for Everybody (Getting Started with Python) (08/2022 - 09/2022)

ACHIEVEMENTS

Star Performance Award of the Year by GarudaUAV Soft Solutions Pvt Ltd