

Ishant Manderwal

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EDUCATION

Maharaja Agrasen Institute of Technology

New Delhi, India

Bachelor of Technology - Electronics and Communication Engineering; GPA: 8.40
2024

July 2020 - June

Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Computer Architecture, OOP, Networking, Databases

SKILLS SUMMARY

- Languages: C, Java, Python, Javascript
- Full Stack Development : HTML, CSS, Javascript, Node.js, Express.js, React.js
- Database: Mysql
- Data Science: Standard Statistics, ML Algorithms, Deep Learning Algorithms, Natural Language Processing (NLP), LLM (Large Language Model), RAG, Hugging Face
- Libraries : Tensorflow, keras, Numpy, Pandas, Matplotlib, Seaborn, Pytorch, bokeh
- Developer Tools: IntelliJ, VS Code, Git, Colab, Jupyter
- Soft Skills: Communication, Leadership, Event Management, Public Speaking, Time Management

EXPERIENCE

CodSoft (AI/ML Intern)

Oct 2023 – Jan 2024

- Building AI Models for Object Detection and Image Segmentation Using State of Art Models like Yolov8.
- Using Open Source LLMs and implementing it to a specific usecase with Agents like SERP using Langchain
- Implementation of built Models to User Interface Level.

PROJECTS

BasketBall Player Detection and for Field Analysis | Python, Yolov9, OpenCV, Roboflow

- Implemented the RCNN classification algorithm for face recognition.
- Utilized OpenCV under 500 milliseconds.
- Achieved an outstanding error rate below 3% on a dataset comprising 1,000 images.

Chatbot | HuggingFace, GPT2 Model, Langchain

- Made a overall Chatbot Using OpenAI api
- Implementation of Memory-buffer Window Using Langchain
- Deploying it on the Streamlit

Fire Detection System | Yolov9, Roboflow, Python, OpenCV

- Made a Model Using Yolov9 for Fire Detection Using 2000 Image Dataset.
- 1:2:1 Ratio for Validation, training and Testing of the Model.
- Updating live Coordinates of the Fire and automated call to the nearby fire station.
- Connecting it to Google API, Providing a link that will open the Shortest and Fastest Route to the Location.

FragFocus | Nvidia Geforce Driver, Yolov9, OpenCV, Roboflow

- Designed a Feature which Automatically Records the Gameplay Highlights.
- Implementation of the feature in Nvidia Geforce Driver for Windows for easy use.
- Used Roboflow for the annotation of the Ground Truth for the Dataset.
- Automation of recordings which can go More than 60 FPS.

HONORS/CERTIFICATIONS

- Machine Learning Specialization (Supervised and Unsupervised Learning) by Andrew Ng
- Deep Learning Specialization by Andrew Ng
- Generative AI Course by PWSkills

VOLUNTEER EXPERIENCE

- **Dell Alienware (Esports Competition)**
Managing the system configuration and Peripherals Devices for the Gamers

-June 2022