

# Ayush Jain

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## SKILLS

**Skills:** - Python, Data Analytics, Exploratory Data Analysis, Feature Engineering, Machine Learning, Deep Learning, Computer Vision

**Libraries:** - NumPy, Pandas, Matplotlib, Scikit-learn, OpenCV

**Frontend:** - Flask, HTML, CSS

**Backend:** - Python, C++

**Database:** - MySQL, MongoDB

**Cloud Platform:** - Heroku, AWS, Google Cloud

Data Structure and Algorithm, Problem Solving

## PROFESSIONAL EXPERIENCE

### Computer Vision Intern

07/2022 – 09/2022

Technocolabs Softwares

- Responsibility- Co-Team Lead | Team Size: - 8 members
- Worked on **Image Pre-Processing** on subset of dataset. Goal here was to Resize, Normalize, and perform **Data Augmentation** on image data.
- Conducted **PCA** and **HOG** feature extraction on 1000+ images; reduced processing time by
- 30% Developed a final **CNN model** with accuracy improved to 51%.

### Data Science and Business Analyst Intern

09/2021 – 10/2021

The Sparks Foundation

- Worked on various Machine learning projects which included algorithm like **linear regression, logistic regression, Decision tree** to solve business problem with accuracy reaching 82%.

## PROJECTS

### Real-Time Amazon Inventory Reconciliation | GitHub



- Primary Objective:** To develop a **computer vision** system that could count the number of items in Amazon bins and detect variance from recorded inventory.
- Approach:** Used different **CNN pre-trained models** for **feature extraction** from bin image data.
- Results:** **ResNet34** performed better for our dataset, with a final test accuracy of 50.5%.

### Vision based Attendance System | GitHub



- Objective:** To develop a web application that could collect images of users, register them, and recognize their faces to allow for attendance tracking.
- Approach:** Used **Mtcnn** and **dlib face recognition models** to extract features from user images and compare them to a database of known faces.
- Results:** The application was able to successfully register and recognize users with an accuracy above 85%.

### AutoVolumeControl | GitHub



- Objective:** To develop a **hand tracking gesture** application that could control volume levels in real-time using Computer Vision techniques.
- Approach:** Used **OpenCV** to detect and track hand movements.
- Results:** The application was able to successfully control volume levels with an accuracy above 87%.

### WhatsApp Chat Analyzer | Github



- Objective:** To develop a **Python-based web application** that could analyze and visualize user chat data using the Streamlit framework.
- Approach:** The application used **Streamlit** to create a user-friendly interface for visualizing chat data.
- Results:** The application was able to successfully analyze and **visualize chat data**, providing users with insights into their chat conversations.

## ACHIEVEMENTS

### Competition

- Received the **Kaggle Expert** designation in Datasets, Notebooks, and Discussions
- Made over **18,000+ Open-Source Contributions**, to Google Dataset to help them improve its all over Services using AI technology.
- Placed **317th out of 4,000+ participants** in the Tabular Playground June competition on Kaggle.
- Achieved a **top 1%** finish in the CodeChef October Long 2022 competition.
- Achieved **Top 30** finish in HACK KRMU Hackathon.

## EDUCATION

### B.Tech( CSE Specialization in Data Science)

2020 – present

Noida Institute of Engineering and Technology, Greater Noida  
91.2% (till 5th semester)

### Intermediate

2020

Boys' High School and College, Prayagraj – 89.4%  
ISC

### High School

2018

Boys' High School and College, Prayagraj - 92.0  
Computer Science (ICSE)

## CERTIFICATES

Google Professional Data Analytics  
Google

Data Analytics Virtual Internship  
KPMG Australia

Python Project for Data Science  
Coursera

Data Analysis with Python