

# Aditya Kumar

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## EDUCATION

**Nitte Meenakshi Institute of Technology**

*B.Tech. Artificial Intelligence and Data Science*

June 2025

CGPA: 7.64/10

## Skills

**Programming:** Python, SQL, Numpy, Matplotlib, Seaborn, Streamlit, Selenium, Statistics

**Machine Learning:** Preprocessing, NA handling, Outlier treatment, Data normalization, One hot encoding, Feature engineering, Cross validation, Model Building, Supervised, Unsupervised

**Image Processing:** OpenCV, Computer Vision, Digital Image Processing, Webcam Processing, Face Detection, Real-time Processing

## WORK EXPERIENCE

**Fashion Cloth Search App**

Present

- Developed a multimodal search system using Haystack to retrieve fashion item images based on text queries.
- Implemented an In-Memory Document Store to store image embeddings and utilized the CLIP model for text-to-image retrieval.
- Created an intuitive user interface with Streamlit, allowing users to enter queries and view the top matching images with similarity scores.
- Enabled efficient and accurate search functionality, leveraging the latest advancements in multimodal embeddings and interactive web applications.

**Ineuron.ai Machine Learning Intern**

March 2024 – Present

- Conducted comprehensive Exploratory Data Analysis (EDA) on the Zomato Dataset.
- Developed and implemented machine learning models for accurate rating prediction.
- Utilized diverse algorithms to tailor a robust predictive model specific to the Zomato Dataset.
- Enhanced accuracy in restaurant rating forecasts, contributing to strategic business initiatives.

**CodeClause Data Science Intern**

Sep 2023 – Oct 2023

- Implemented K-Means clustering for Customer Segmentation
- Utilized statistical methods to categorize customer data effectively
- Employed Statistical Analysis to Drive Customer Insights
- Applied statistical techniques, specifically K-Means clustering, to derive meaningful customer segments
- Facilitated targeted business strategies

## PROJECTS

**LangChain PDF Interact** | *Streamlit, PyPDF2, langchain, Hugging Face Transformers, dotenv, FAISS*

GitHub

- Developed a web application using Streamlit and Python alongside PyPDF2 for PDF processing
- Integrated langchain NLP libraries and Hugging Face Transformers for natural language understanding
- Utilized dotenv for environment variables and FAISS for efficient similarity search
- Facilitated interactive conversational queries on PDF documents

**Human Activity Recognition** | *Scikit-learn, XGBoost, TensorFlow, Collections, Regular Expression*

GitHub

- Leading the development of advanced machine learning models to accurately recognize human activities based on sensor data
- Proficient in Python for comprehensive data preprocessing, exploratory analysis, and model tuning
- Specialized expertise in implementing logistic regression, decision trees, and random forests

**Real-time Object Detection & Tracking** | *OpenCV, Tracker*

GitHub

- Engineered real-time object tracking with Python, OpenCV, and Euclidean distance tracking
- Applied advanced computer vision techniques like background subtraction and contour detection
- Demonstrated Python proficiency and algorithmic optimization to enhance object tracking performance

## Certificates

**Data Structures & Algorithms in Python**

link

*GeeksforGeeks*

- Comprehensive DSA Course in Python, covering basics to advanced topics

**Complete Machine Learning & Data Science Program**

link

*GeeksforGeeks*

- Learn to apply DS methods and techniques, and acquire analytical skills