

# Muhammad Abbas Chaudary

## Data Scientist

✉ abbasnawaz125@gmail.com ☎ +92-321-9704177 📍 Islamabad, Pakistan

🐙 github.com/abbasnawaz 🌐 linkedin.com/in/dr-abbas-ch 🔗 http://cabbas.me/

## Education

---

### GIFT University

Bachelor in computer science

3.65 / 4.00

2019 – October 2023

Gujranwala, Pakistan

### FAST-NUCES

Master in Data Science

3.22 / 4.00

August 2024 – present

Islamabad, Pakistan

### Research Work

Detection of Different Criminal & Violent Activities

Developed an advanced computer vision system for real-time identification and classification of various criminal and violent activities, utilizing deep learning techniques and video analytics

Research paper <https://ieeexplore.ieee.org/document/10465800>

## Experience

---

### HyperNym

Data Scientist

September 2024 – present

Islamabad, Pakistan

Contributed to the development of AI-powered video analytics solutions, focusing on real-time insights from Dashcam and surveillance data. Worked on scalable machine learning pipelines and camera stream management to support safety, security, and operational efficiency across enterprise environments.

### Devsloop

Software Engineer

August 2023 – August 2024

Gujranwala, Pakistan

Developed and deployed web-based AI applications, improving code maintainability and performance by 30%. Integrated RESTful APIs and ML inference pipelines using FastAPI and Docker.

## Projects

---

### AI-Powered Fleet Management Alerts

Designed an AI-driven fleet management system with real-time alerts for people counting, driver fatigue, drowsiness, and road sign detection, safe distance maintenance, distracted driving, seat belt detection, improving safety and operational efficiency.

### Footfall Analytics & ATM Security

Implemented advanced footfall analytics and real-time machine jackpotting detection, enhancing ATM security and monitoring for **Allied Bank ATMs**.

## LUMA

Worked on a UK-based project developing AI-powered solutions, including summarization, email drafting, legal note-taking assistance, AI search, and OCR for efficient document and history-based insights.

### Smart Building Safety System

Engineered a comprehensive smart building solution incorporating people counting, fire detection, gun detection, Gender Detection, Emotion recognition, and additional critical safety features for **Vodafone Qatar**.

### Face Attendance System

Built a robust face detection and recognition system for automated attendance tracking, reducing manual errors and streamlining administrative workflows.

### Big Data Analytics & Automated Data Cleaning

Led the development of a robust big data analytics platform with automated data cleaning capabilities to ensure accurate, high-quality data for decision-making

### Future Forecasting & Reporting System

Developed a dynamic forecasting and reporting system, delivering predictive insights to inform business strategies and decision-making

### DSS Pro Service & Camera Streaming Management

Led the maintenance and security of DSS Pro camera streaming services, integrating AI-powered analytics to ensure seamless extraction of critical insights while maintaining real-time URL and playback services for **Vodafone Qatar**.

## Core Skills

---

- Advanced Image Processing Techniques.
- Deep Learning Architectures and Applications.
- Design and Implementation of Machine Learning Architectures.
- Development of End-to-End Machine Learning Pipelines.
- Preprocessing and Data Visualization using Pandas, Seaborn and Matplotlib.
- Experience with Containerization Using Docker and Kubernetes.
- Deployment and Scaling Using Virtual Machines and Cloud Platforms.
- Programming Languages: Python, C++, R.
- PyTorch, TensorFlow, Computer Vision, Hugging Face, OCR, Numpy, Pandas, Flask, Django, R&D, Kubernetes, Docker, Azure, SQL, GIT, Postman, Colab, Documentation.

## Courses

---

Generative AI with Large Language Models [!\[\]\(f1c5da15572e3e09d343161be98f508d\_img.jpg\)](#)

Deep Learning Specialization

Supervised Machine Learning: Regression and Classification

The Data Science Course: Complete Data Science Bootcamp 2024