

# Ajay Kumar

Mathura, UP 281001 · 6397053766 · a.kmar01c@gmail.com · [Linkedin](#) · [Portfolio](#) · [Github](#)

---

## EXPERIENCE

May'23 – Nov'23 | **Data Engineer**

Remote

### *TDW - News Scraper*

- **Code Optimization:** Enhanced content classification code, resulting in a **significant 55% reduction in project expenses**. Increased efficiency and resource utilization.
- **Enhanced Data Quality:** Implemented a data quality enhancement strategy by extracting a diverse range of images from news articles, departing from the previous practice of only capturing JPG images. This improvement enriched the project's data repository.
- **Cloud Migration:** Transferred Storage functionality from GCP to AWS, achieving cost reduction and improved operational efficiency.

### *Eurostat & Comtrade - Bulk Data Collection*

- **Streamlined Data Collection:** Transformed the import and export goods data collection process from manual website downloads to API-based automation, significantly improving efficiency.
- **Enhanced Speed:** Leveraged the asynchronous capabilities of the async library to concurrently send multiple requests, accelerating data retrieval processes.

Jun'21 – Aug'21 | **Full Stack Developer**

Agra, UP

### *CafeLink – Web Application*

- **CafeLink Web App Development:** Created CafeLink, a ReactJS-based platform connecting local cafes, enhancing brand visibility.
- **Enhanced Revenue Streams:** Facilitated cafes in boosting revenue through menu showcases, events, and offers promotion.
- **Efficient Database Management:** Employed MySQL and PHP for seamless data organization and retrieval, optimizing user experience.
- **Leadership and Task Management:** Directed daily task allocation among a team of five members and conducted follow-ups in the evening to ensure progress and accountability.

---

## SKILLS & CERTIFICATIONS

- **Technical Skills:** SQL, HTML, CSS, JavaScript, React, Python, Power BI, scikit-learn, Data Quality, Descriptive Analytics, Streamlit, Data Visualization
- **Certifications:** HTML, CSS, and JavaScript for Web Developers by John Hopkins University, Python for Everybody, Python Data Structures, Hands-On Machine Learning, CS50 SQL

---

## EDUCATION

2018-2022 | **HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY**

Mathura, UP

### *Bachelor of Technology in Computer Science Engineering*

- GPA : 7.6 /10
- Actively participated in competitive gaming communities, fostering strategic thinking, teamwork, and adaptability through titles such as CSGO and COD.

---

## PROJECTS

### *Sign Language Translator*

- **Hand Gesture Recognition:** Developed a real-time system utilizing Camera Input to recognize and interpret sign language gestures.
- **Data Labeling Expertise:** Utilized Python's LabelImg Package to create a labelled dataset, enhancing training data for a Convolutional Neural Network (CNN).
- **Accuracy Enhancement:** Achieved detection accuracy ranging from 65% to 90%, optimizing sign language interpretation.

### *CO2 Emission and Climate Change Dashboard*

- **Data Visualization:** Developed a Python application using Panel and HvPlot libraries to create an interactive dashboard for visualizing and analyzing CO2 emission and climate change data.
- **User-Friendly Interface:** Designed an intuitive interface enabling users to explore and comprehend the environmental impact of CO2 emissions effortlessly.
- **Informative Insights:** Facilitated data-driven understanding of the relationship between CO2 emissions and climate change for informed decision-making.