# AJAY KUMAR

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## Summary

Experienced Data Engineer at Vitispro, adept in web scraping and NLP projects. Possesses strong analytical skills with a focus on data analysis, data science, and machine learning. Proficient in Python, SQL, Streamlit, and Power BI. Passionate about leveraging data to drive informed decisions and unlock actionable insights in the corporate arena.

## Skills

Technology: - Data Quality | Data Science | ML | Descriptive Analytics | Data Visualization | Web Scraping

Tools: - SQL | Python | Streamlit | Power BI | Postman | scikit-learn | HTML/CSS | JavaScript

## Experience

### VITISPRO | Data Engineer
May'23 – Nov'23. | Remote

**TDW - News Scraper**

- Cloud Migration: Transferred key functions from GCP to AWS, achieving cost reduction and improved operational efficiency.
- 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.

**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.

### BCS Infallible Technology | Intern
Jun'21 – Aug'21 | Agra

**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.

## Education

Hindustan College of Science & Technology
Mathura, UP

B.Tech - Computer Science Engineering  |  GPA :  7.6 /10
Aug'18 – Jun'22

## 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 labeled dataset, enhancing training data for a Convolutional Neural Network (CNN).
- Accuracy Enhancement: Achieved detection accuracy ranging from 65% to 90%, optimizing sign language interpretation.

WhatsApp Chat Analyzer

- Employs advanced algorithms to thoroughly analyze WhatsApp chat messages, extracting valuable statistics and insights for in-depth communication assessment.
- Efficiently extracts and presents data such as message frequency, word usage, and participant engagement, enabling a deeper understanding of group dynamics.
- Provides actionable insights into group communication patterns, aiding in better decision-making and fostering improved communication strategies.

## 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.

## Courses & Certifications

- Python for Everybody | Python Data Structures – Coursera
- Hands-On Machine Learning – Coursera
- HTML, CSS, and JavaScript for Web Developers – Coursera