# AJAY KUMAR

B. Tech – Computer Science Engineering

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GitHub | Portfolio

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## Educational Qualification

| Year | Degree/Examination | Institution/Board | CGPA/Percentage |
|------|--------------------|--------------------|------------------|
| 2022 | B. Tech (CSE) | Hindustan College of Science & Technology, Farah, Mathura | 76.7 % |
| 2018 | Class XII | Madan Mohan Kalawati Sarraf SVM, Mathura, CBSE | 59.83 % |
| 2016 | Class X | Madan Mohan Kalawati Sarraf SVM, Mathura, CBSE | 7.00 |

## Internship Experience

- **CafeLink – Web Application, Agra:** *June 2021 – July 2021*
  During my internship at BCS Infallible Technology, I developed CafeLink, a web application built with ReactJS. The purpose of CafeLink is to provide a central platform for local cafes to connect and advertise their menus, reviews, ongoing events, offers, and more. This helps local cafes improve their brand value and generate additional revenue. I used MySQL with PHP to manage the database for storing and organizing the data.

## Project Work

- **Major Project**

  **Sign Language Translator:** *Sep 2021 – May 2022*
  The objective of this project is to detect the hand gestures from the Camera Input to understand the hand sign. **LabelImg Package** from Python is used to make the labelled dataset for a deep learning algorithm **(CNN)** as training data. The variation of accuracy of detection is between 65 and 90 %.

- **Other Projects**

  **Heat flow prediction of PCMs using Machine Learning Algorithms:** *July 2022*

  The objective of the project is to predict the heat flow of different phase change materials by using different machine learning algorithms. The dataset is taken from experiments that are performed on PCMs with different compositions. Based on R2 and RMSE, Random Forest Regression was found the best suitable algorithm.

  **WhatsApp Chat Analyzer:** *Dec 2022*

  A WhatsApp chat analyzer is a tool that allows you to analyze the messages in a WhatsApp chat and extract various statistics and insights from the data. This can be useful for understanding how a group of people communicate with each other.

## Technical Skills

- Programming Languages  : Python, SQL, C.
- Development                    : HTML, CSS, JavaScript, React JS, Streamlit.
- Other Software              : Jupyter, Power BI, VS Code, Git, MS-Excel.

## Positions of Responsibility

- **Team Leader**
  In a one-month internship at BCS Infallible Technologies, Agra, I was the team leader. To meet the deadlines, my duties included assigning work to team members, taking the follow-up, and finishing my own job.

## Certifications

- Completed an online course on **Hands-On Machine Learning** with Python language.
- Completed online courses on **Python for Everybody** & **Python Data Structures** offered by the University of Michigan in **Oct 2021** on Coursera.
- Completed an online course of **HTML, CSS, and JavaScript for Web Developers** offered by Jhon Hopkins University on Coursera in **Apr 2021**.