

# Abhay Kumar

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## SKILLS

**Languages:** Python, C++, C

**Tools/Platform:** Jupyter-Notebook, Dev C++, Visual Studio Code, freeCodeCamp

**Soft Skills:** Adaptability, Effective Communication, Collaboration

## PROJECTS

### Online Mentor Platform | [Python](#) | [GITHUB](#)

January 2025 - April 2025

- Developed an ML-powered **mentor–mentee** matching platform using **EDA**, reducing data preprocessing time by **18%**
- Built a clustering-based recommendation model that analyzes user interests, skills, and expertise to improve match accuracy by **~20% (estimated)**
- Implemented **K-Means**, **TF-IDF**, and data preprocessing pipelines in **Python**; integrated the model into a web application using **Streamlit**, improving user interaction efficiency by **30%**

### Real-Time Process Monitoring Dashboard | [Python](#) | [GITHUB](#)

January 2025 - April 2025

- Developed a real-time monitoring dashboard displaying **process states**, **CPU load**, and **memory usage**, enabling administrators to detect issues **30% faster**
- Designed a cross-platform GUI in **Python** using **Tkinter**, integrating modules like **time**, **os**, and **psutil** for seamless system monitoring
- Optimized dashboard performance by **10%** through **efficient filtering**, **configurable refresh rates**, and **time-series tracking**, improving **responsiveness** and **user experience**

## TRAINING

### Allsoft Solutions (Partnered IBM) | [Link](#)

June 2025 - July 2025

Industry Training in AI&ML

- Performed **Exploratory Data Analysis (EDA)** using **NumPy** and **Pandas**, reducing data preprocessing time by **15%**
- Developed, trained, and evaluated **Machine Learning** models—including **Linear Regression**, **Decision Trees**, **K-Means**, and **Ensemble Methods** using **Scikit-learn**, achieving a **10% improvement in model accuracy**
- Applied **feature engineering** techniques that enhanced predictive model performance by **20%**

## CERTIFICATES

### Advance Computer Network | [NPTEL](#)

May 2025

### Python Programming Fundamental | [Coursera](#)

March 2025

### Personality Development Essentials Training | [Infosys Springboard](#)

October 2023

### Responsive Web Design | [freeCodeCamp](#)

October 2023

## ACHIEVEMENTS

### Problem Solver – Bronze Badge | [CodeChef](#)

November 2025

### Silver Level in Python | [HackerRank](#)

May 2025

## EDUCATION

### Lovely Professional University

Phagwara, Punjab

Bachelor of Technology - Computer Science and Engineering; **CGPA: 8.16**

August 2023 - Present

### Kisan College

Nalanda, Bihar

Intermediate; **Percentage: 76.6%**

March 2020 - March 2022

### Prerna Punj Public School

Nalanda, Bihar

Matriculation; **Percentage: 79%**

March 2019 -March 2020