

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