

Ayush Kumar Rai

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About

Technical engineer with hands-on experience in machine learning, image classification, and web development. Actively learning DSA and core CS concepts. Skilled in Python, scikit-learn, OpenCV, and React.

Education

Sai Vidya Institute of Technology 2022 – 2026
BE in Computer Science (Artificial Intelligence and Machine Learning)

- **CGPA:** 9.0

Kendriya Vidyalaya 2010 – 2022
PCMCS

- **CLASS:** Distinction (90 percentile)

Skills

Languages: Python, C++, Java, JavaScript, SQL, HTML/CSS.

Libraries: scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, OpenCV, Tailwind.


Tools/Platforms: Git, GitHub, Jupyter Notebook, Google Colab, VS Code, Anaconda, Windows/Linux.

Experience


Machine Learning Intern Delhi, India
Skill Craft Technology Mar 2025 – Apr 2025

- Completed 4 projects under guidance of mentors in field of Machine Learning using different libraries.
- Achieved 92% (Cat-Dog), 89% (Hand Gesture), K=5 meaningful clusters, and $R^2 = 0.87$ in house price prediction.
- Used scikit-learn, OpenCV, NumPy, Pandas, Matplotlib, and Seaborn for preprocessing, model training, and evaluation.


Projects

Hand Gesture Recognition using SVM [Link](#) 

- Built SVM-based hand gesture classifier using the leapGestRecog dataset.
- **Tools:** Python, scikit-learn, OpenCV, NumPy, Matplotlib.
- Achieved 89% accuracy in multi-class gesture recognition.

Mall Customer Segmentation using K-Means Clustering [Link](#) 


- Implemented customer segmentation using K-Means clustering on target customers.
- **Tools:** Python, Kaggle, Spyder, Pandas, Seaborn.
- Identified optimal clusters $K = 5$ based on the elbow method and improved targeting of the customer group.

Personalized Portfolio Website [Live Demo](#) 

- Customized and deployed a personal portfolio using React.js and Tailwind CSS.
- **Tools:** HTML, CSS, React.js, Tailwind CSS, Vercel.
- Modified layout, content, and images from a template and deployed on vercel.

Certifications

Artificial Intelligence Foundation: Neural Networks [Link](#) 

Exploratory Data Analysis for Machine Learning [Link](#) 

Google AI essentials [Link](#) 

Intuition Building for Machine Learning Deep Learning [Link](#) 