

CHETAN SHARMA

Bulandshahr, Uttar Pradesh

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🌐 LinkedIn

🐙 Github

Education

PDPM, Indian Institute of Information Technology, Jabalpur

Master of Technology in Data Science - CGPA - 7.5

Aug 2023 – Jul 2025

Jabalpur, Madhya Pradesh

Raj Kumar Goel Institute of Technology, Ghaziabad

Bachelor of Technology in Information Technology - CGPA - 8.18

Aug 2017 – Aug 2021

Ghaziabad, Uttar Pradesh

Experience

Machine Learning Intern | *ELITE Tech*

Jan 2025 – Mar 2025

- Developed a machine learning model to help with **calorie estimation and food recognition** for dietary tracking.
- implemented ML algorithms for **image classification and clustering tasks** using real-world datasets.

Research Work | *Biomedical Signal Processing and Control (Under Review)*

Jun 2024 – Feb 2025

- Developed a Feature Attention Network for **colorectal cancer detection** using histopathological images.
- Evaluated the model using **subject-dependent and subject-independent** testing strategies, achieving **accuracies of 99.3%, 97.86%, and 96.65%** on three datasets. Experimental results outperform **ten SOTA techniques**.
- Assessed performance using metrics such as **precision, recall, F1 score, specificity, AUC-ROC curve, and confusion matrix**.
- Incorporated **Grad-CAM and t-SNE** plots to identify discriminative regions in histopathological tissue images and visualize feature distributions, enhancing clinical interpretability.

Projects

E-Commerce Sales Analysis | *Python* 🐍

Jan 2024 – Apr 2024

- Analyzed monthly sales data, identifying the months with the **highest and lowest sales**, and evaluated sales performance by product categories, sub-categories, and customer segments.
- Conducted profit analysis by month, **category, and sub-category** to identify the highest profit areas and assess profitability trends.
- Calculated and analyzed the sales-to-profit ratio, evaluating the **overall efficiency and profitability** of the store.
- Contributed to data-driven decision-making for sales and profit optimization by offering insights into the performance of various product categories and client segments.

RRW | *Digital Watermarking* 🐍

Jan 2024 – May 2024

- Implemented an approach for Robust Reversible Watermarking in industrial images using **ZMs and IWT**, enhancing security for digital assets in **IIoT environments**.
- Achieved robust image protection and authentication, with an **NCC value of 0.9686** and a **PSNR value of 26.8 dB** between the original and watermarked images.

Technical Skills

Machine Learning: Supervised and Unsupervised Learning Algorithms

Deep Learning: Convolutional Neural Network

Languages: C/C++, Python

Libraries: Numpy, Pandas, Matplotlib, Tensorflow, Scikit-learn, Plotly

Tools: VS Code, Google Colab Notebook, Jupyter, Github

Volunteering

Coordinator in Light De Literacy

Jan 2018 – Nov 2019

- Conduct of classes for a **batch of 100 children** of different classes to help them with **concepts of math, science** and with maintaining order and assigning classes to various members.
- To clarify their doubts during the class sessions and make them practice problems to make sure they understand the concepts.