

## Gaurav Kumar

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### Summer Training

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#### Board Infinity

Jun'24 – Jul'24

**R Programming** | Technologies: R, Linear regression

- Completed an intensive R Programming training course, focusing on data manipulation, visualization, and statistical analysis.
- Developed hands-on experience in writing R scripts, working with data frames, and implementing machine learning algorithms.
- Analyzed real-world datasets using R packages like ggplot2, dplyr, and tidyr to extract meaningful insights.

### Projects

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**Email Rewriter Gen AI** | Python (Hugging Face, Transformers, Google Colab)

Aug'25

- Trained and fine-tuned a transformer-based model using Hugging Face for automated email rewriting.
- Built a custom dataset and applied preprocessing techniques to improve model performance and accuracy.
- Deployed and tested the Gen AI model on Google Colab with reproducible training and inference pipeline.

**YOLO Object Detection Model** | Python (YOLO, OpenCv, Flask), Html, CSS, JavaScript

Sep'24

- Designed and implemented a custom YOLO-based object detection model to scan and classify images into predefined categories with high accuracy.
- Optimized preprocessing pipeline to enhance detection speed and performance during real-time scanning.
- Deployed the model through a Flask-based web interface for easy accessibility and testing.

**Piano Tiles Automation with Computer Vision** | Python, PyAutoGui, Pillow

Mar'19

- Developed an AI-driven automation bot to play the Piano Tiles game using computer vision for real-time tile detection.
- Implemented image recognition with Pillow to process game screenshots and identify target tiles with pixel-level accuracy.
- Applied algorithmic decision-making to simulate precise keypress sequences, optimizing reaction time for high scores.

### Certificates

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**Approximation Algorithms and Linear Programming**

May'24

Coursera — [Certificate Link](#)

**R Programming**

Apr'24

BoardInfinity — [Certificate Link](#)

**ChatGPT Playground for Beginners: Intro to NLP AI**

Apr'24

Coursera — [Certificate Link](#)

### Technical Skills

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**Languages:** Python, R, Scala

**Tools/Technologies:** MySQL, Flask, Hadoop, Spark, Excel, Tableau

**Skills:** Data Structures and Algorithms, leadership, problem-solving, teamwork, project management, adaptability

### Education

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**Lovely Professional University Punjab**

Computer Science and Engineering — CGPA: 7.4

Aug'22 — Present

Phagwara, Punjab

**Kendriya Vidhalaya Manesar**

12th with Science — Percentage: 89%

Apr'20– Mar'21

Gurgaon, Haryana

**Kendriya Vidhalaya Kankinara**

10th with Science — Percentage: 86.6%

Apr'17– Mar'18

Kankinara, Kolkata