**Gaurav Kumar**

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# Summer Training

**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**

**Airbnb Price Prediction**|R (Linear Regression, ggplot2, dplyr, tidyr)  **Jun 2024**

* Developed a linear regression model to predict Airbnb prices based on key factors like room type, availability, minimum nights,

and reviews.

* Implemented data cleaning techniques, including handling missing values and outliers, to improve model accuracy.
* Visualized data relationships using ggplot2 to interpret price trends based on key features.

**YOLO Object Detection Model**| Python (YOLO, OpenCv, Flask), Html, CSS, JavaScript **Sep 2024**

* 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 2019**

* 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

***Approximation Algorithms and Linear Programming May 2024***

Coursera *—*[*Certificate Link*](https://coursera.org/share/ef7c72bc37cd94dcbe8ad8de201b36bd)

**R Programming Apr 2024**

BoardInfinity *—*[Certificate Link](https://www.coursera.org/account/accomplishments/specialization/UW2GZVABWEEP?utm_source=link&utm_medium=certificate&utm_content=cert_image&utm_campaign=sharing_cta&utm_product=s12n)

**ChatGPT Playground for Beginners: Intro to NLP AI Apr 2024**

Coursera *—* [*Certificate Link*](https://coursera.org/share/c2c798fec8ea62ca3d5ec899cba32f22)

# 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** **Aug 22 *—******Present***

*Computer Science and Engineering — CGPA: 6.92 Phagwara, Punjab*

**Kendriya Vidhalaya Manesar Apr’20– Mar’21**

12th with Science — Percentage: 89% *Gurgaon, Haryana*

**Kendriya Vidhalaya Kankinara****Apr’17– Mar’18**

*10th with Science — Percentage: 86.6% Kankinara, Kolkata*

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