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'24**

- 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'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

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

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

Lovely Professional University Punjab   **Aug'22 — *Present***
Computer Science and Engineering — CGPA: 7.20   *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*