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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](#)

R Programming

Apr 2024

BoardInfinity — [Certificate Link](#)

ChatGPT Playground for Beginners: Intro to NLP AI

Apr 2024

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

Computer Science and Engineering — CGPA: 6.92

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

