Rohan Agarwal

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Training

Summer Training for Competitive Programming (LPU)   June 2024 – July 2024
- Mentored in advanced problem-solving techniques, algorithm optimization, and coding strategies for contests.
- Gained hands-on experience in implementing core Data Structures and Algorithms through practical challenges.
- Created a web-based N-Queen Solver project using backtracking, with interactive solution visualization.

Projects

Food Image Classification| *Python, TensorFlow, TensorFlow Hub, Matplotlib*   Jan 2025
- Developed a deep learning model using TensorFlow for classifying food images into 10 categories from Food101 dataset.
- Implemented feature extraction using ResNet50V2 and EfficientNetB0 with transfer learning.
- Visualized training and validation loss curves for model performance evaluation.
- Utilized TensorBoard for experiment tracking and performance comparison between different architectures.

Fashion MNIST Classifier | *Python, Tensorflow, Matplotlib, Pandas*   Dec 2024
- Built a neural network model to classify Fashion MNIST images into 10 distinct categories.
- Implemented data visualization, model creation with normalization, and loss curve plotting.
- Integrated functionalities for confusion matrix generation and random image prediction with accuracy labeling.

Stock Trading Bot | *Python, Reinforcement Learning, ML Algorithms*   Oct 2024
- Developed a machine learning-based trading bot for stock analysis, predictive modeling, and automated trading decisions.
- Integrated backtracking for performance evaluation and implemented multiple algorithms for improved efficiency.

Certifications

Cloud Computing   Nov 2022
NPTEL

Technical Skills

Languages C++, Java, Python, HTML5, CSS33, Tensorflow

Technologies/Frameworks: Git, Github, Docker, Linux

Skills: Data Structures and Algorithms, Problem-Solving, Scripting in Python

Education

Lovely Professional University Punjab   2022 – 2026
Computer Science and Engineering — CGPA: 8.02   *Jalandhar, Punjab*

Sun Valley International School   2020
12th with Science — Percentage: 90.80%   *Ghaziabad, Uttar Pradesh*

Sun Valley International School   2018
10th — Percentage: 91.00%   *Ghaziabad, Uttar Pradesh*