Rohan Agarwal

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Skills

Languages:	Java, C, C++, Python, HTML
Frameworks:	Pandas, OpenCV , Tesseract OCR , Tkinter , TensorFlow, REST API, Comfy UI
Tools/Platforms:	VS Code, IntelliJ IDEA, Git, GitHub, Canva, Linux/Unix
Soft Skills:	Time Management, Fast learner, Leadership, Team Collaboration

Training

Summer Training in Competitive Programming
June 2024 – July 2024

- Mentored in algorithm design and optimization strategies for coding contests
- Applied core Data Structures and Algorithms to competitive problems
- Developed a web-based N-Queen Solver using backtracking visualization

Tech: C++, Java

Projects

SmartEditor
April 2025

- Developed a GUI tool to extract and correct text from scanned documents using Tesseract
- Enabled real-time user correction with image-text side-by-side display
- Implemented benchmarking to compare OCR output with ground truth for accuracy

Tech Stack: Python, Tesseract OCR, Tkinter, OpenCV, Pandas

Comfy UI: AI Image Generation Interfacer
March 2025

- Developed an intuitive interface for generating images using ComfyUI and AI models
- Enabled real-time editing for customizable image outputs
- Integrated features for saving and sharing generated images

Tech Stack: ComfyUI

Food Image Classification
January 2025

- Developed a deep learning model with the Food101 dataset (10 categories)
- Applied transfer learning (ResNet50V2, EfficientNetB0) and evaluated with TensorBoard
- Achieved 78% accuracy by tuning model loss curves, surpassing baseline results

Tech Stack: Python, TensorFlow, TensorFlow Hub, Matplotlib, TensorBoard

Certificates

- Cloud Computing – NPTEL, IIT Kharagpur — July – October 2024
- Introduction to Generative AI – Google Cloud (Coursera) — January 2024

Achievements

LeetCode Problem Solving
May 2025

- Solved 150+ problems in arrays, trees, graphs, and dynamic programming

Cleared Intra-College Smart India Hackathon
September 2024

- Ranked in the top 50 out of 400 teams

Education

Lovely Professional University
Punjab, India

*B.Tech in Computer Science (Specialization: Machine Learning); **CGPA: 8.02*** — *Since September 2022*

Sun Valley International School
Ghaziabad, Uttar Pradesh

*12th; **90%*** — *April 2020 – March 2022*

Sun Valley International School
Ghaziabad, Uttar Pradesh

*10th; **91%*** — *April 2019 – March 2020*