Ankit Singh

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PROFESSIONAL SUMMARY

B.Tech. Information Technology graduate (2025) with hands-on experience in Python, AI, and full-stack development. Skilled in designing APIs, developing machine learning models, and building scalable applications using modern frameworks like React, Next.js, and TensorFlow. Strong problem-solver with proven projects in image analysis, recommender systems, and medical diagnostics. Actively seeking a Software Engineer / Python Developer role to apply technical expertise and deliver impactful solutions.

Education

Pranveer Singh Institute of Technology — Graduated: 2025

B.Tech. in Information Technology, (2021 – 2025)

Doon International School, Kanpur — 2018 & 2020

Highschool & Intermediate

SKILLS

Languages: Python, JavaScript, SQL, HTML/CSS.
Technologies: React, Next.js, TensorFlow, Flask, OpenCV, LangChain.
Tools: GitHub, Postman, Google Colab, Vercel, Cloudinary, EmailJS, Gemini API.
Soft Skills: Communication, Problem-Solving, Teamwork, Leadership.
Certifications: Web Developer Bootcamp (Udemy), Young Professional (TCS iON Career Edge), Data Structures and Algorithms using Python from INFOSYS Springboard.

EXPERIENCE

Infosys Springboard Internship, Artificial intelligence — Feb 2025- Mar2025

- Designed and debugged API workflows using Flask, ensuring proper data handling and error resolution.
- Collaborated in testing the image analysis outputs to verify consistency and improve detection logic.
- Integrated the Gemini AI API to enhance image analysis and provide accurate medical insights, addressing a 15-30% misdiagnosis rate in AI-powered systems

PROJECTS

Underwater Image Enhancement- Machine Learning, Python, OpenCV, Google Colab — Nov- 2024

- Applied Unsharp Masking Technique: Improved visibility of underwater objects by sharpening image details, resulting in a 35% increase in object detection accuracy.
- Implemented Principal Component Analysis (PCA) Fusion: Combined multiple images to enhance clarity and detail in underwater photographs, leading to a 40% improvement in image quality.
- Enhanced overall image quality and visibility, making underwater images 50% more suitable for analysis and interpretation.

Movie Recommender System- Machine Learning, Python — Jan- 2024

- Developed a personalized movie recommender system using Python and collaborative filtering techniques to suggest movies based on user preferences.
- Implemented a K-Nearest Neighbors (KNN) model with cosine similarity to identify similar users and provide recommendations.

Pneumonia Detection, Python, TensorFlow, CNN — Jun- 2022

- Developed a deep learning model using Convolutional Neural Networks (CNNs) to detect pneumonia from chest X-ray images with high accuracy.
- Utilized TensorFlow for model training and applied image preprocessing techniques (normalization, augmentation) to improve performance and reduce overfitting.

ACHIEVEMENTS

- Runner-Up of PSIT Tech Expo (Project-thon) 2022.
- Worked as a Co-head of a College-level Event (IGNITIA-2k23).