

ANANT SINGH

AI Engineer | Python | Machine Learning | Deep Learning

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SUMMARY

AI Engineer skilled in developing and deploying intelligent systems using Python, Machine Learning, and Deep Learning frameworks. Experienced in building end-to-end pipelines—from data preprocessing and model training to deployment and integration with scalable back-end systems.

SKILLS

Languages: Python, C++, JavaScript (ES6+), TypeScript

ML Frameworks: TensorFlow, PyTorch, Scikit-learn, OpenCV, NumPy, Pandas, Matplotlib, Seaborn

Back-End: Node.js, Express.js, Flask

Databases: MongoDB, MySQL, PostgreSQL

Tools: Git, Jupyter, Google Colab, VS Code, Postman, Docker

Concepts: Machine Learning, Deep Learning, Computer Vision, NLP, REST APIs, DSA, Model Optimization

PROJECTS

Face & Emotion Recognition System (Python, OpenCV, TensorFlow)

Developed an end-to-end facial recognition and emotion classification system using CNNs and OpenCV. Implemented preprocessing (face detection, augmentation) and trained model achieving 92% accuracy on FER2013 dataset. Integrated real-time webcam detection with bounding box overlays.

ML-Powered Code Helper (NLP, Flask, Transformers)

Created a chatbot assistant that explains code and helps debug errors using NLP and transformer models. Implemented semantic similarity and intent classification via Sentence Transformers. Deployed model API integrated with a VS Code extension prototype.

WORK EXPERIENCE

Python Developer Intern — Xs Infosol, New Delhi (Jun 2024 – Jul 2024)

- Developed and optimized a biometric recognition system using OpenCV and SVM classifiers, improving accuracy by 15%.
- Implemented preprocessing pipelines for face alignment and lighting normalization.
- Experimented with CNN-based models (ResNet-50 transfer learning) for feature extraction and comparison.

EDUCATION

B.Sc. (Hons) Computer Science — Shaheed Sukhdev College, Delhi University (2022–2025)

Relevant Coursework: Machine Learning, Artificial Intelligence, Data Mining, Linear Algebra, Probability & Statistics

Class 12th — S.R.D.A.V Public School, New Delhi (2022)

Class 10th — Universal Public School, New Delhi (2020)

ADDITIONAL INFORMATION

Certifications: Deep Learning Specialization (Coursera, Andrew Ng), Intro to ML (Kaggle)

Achievements: Solved 100+ DSA problems on LeetCode and GFG; Developed multiple AI prototypes integrating CV & NLP.

Hobbies: Weight Lifting, Storytelling, Poetry Writing