Ashish Soni

AI & Computer Vision Engineer

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Education

B.Tech — Artificial Intelligence & Machine Learning   2024 – 2028
Guru Gobind Singh Indraprastha University   **CGPA: 9.19**

Technical Skills

Languages: Python, C, C++
ML/DL Frameworks: TensorFlow, PyTorch, Scikit-learn, Keras
Libraries: NumPy, Pandas, OpenCV, Matplotlib, Seaborn, Librosa
Core Domains: Machine Learning, Deep Learning, Computer Vision, Generative AI, NLP, Transformers
Architectures: CNN, RNN, GRU, ANN, Transfer Learning, Fine-Tuning
Tools: Git, GitHub, Jupyter, Colab, LangChain

Experience

AI/ML System Developer — Independent Projects   2025 – Present

- Built production-style ML pipelines covering preprocessing, training, evaluation and inference.
- Designed modular deep learning architectures for experimentation and scalability.
- Implemented model optimization techniques including regularization, augmentation and tuning.
- Integrated trained models into REST APIs for real-time prediction systems.
- Focused on inference performance, generalization ability and metric-driven validation.

Selected Projects

Real vs Fake Face Detection System

- Developed ensemble deep learning system combining MobileNetV3, Xception and EfficientNet.
- Applied transfer learning, mixed precision training and cosine learning-rate scheduling.
- Engineered dual-pooling feature fusion architecture improving representation quality.
- Evaluated using ROC-AUC, confusion matrix, accuracy and classification metrics.
- Built real-time inference pipeline using OpenCV.

Image Caption Generator

- Designed multimodal deep learning system converting images into natural language captions.
- Extracted spatial features using CNN encoder and generated text via LSTM decoder.
- Built full training-to-inference pipeline including preprocessing and tokenization.

Music Genre Classification Model

- Built CNN classifier for audio recognition using spectrogram feature engineering.
- Achieved **92% accuracy** on unseen test dataset.
- Performed signal preprocessing, feature extraction and model evaluation.

Certifications

- Kaggle — Intermediate Machine Learning
- HP — Data Science & Analytics