UDIT DAGAR

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Summary

Backend Developer with experience designing and developing scalable server-side applications, REST APIs, and real-time processing systems using Python and Flask. Experienced in integrating AI-powered features and machine learning models into production applications. Passionate about building reliable, high-performance backend systems and solving complex engineering challenges.

Education

Chandigarh University **Mohali, Punjab**

Bachelor of Engineering in Computer Science *2021-2025*

CGPA: 7.8

Technical Skills

Programming: Python, C++, SQL

Backend: Flask, FastAPI, REST APIs, SQLite3, JSON

ML/CV: YOLO, PaddleOCR, OpenCV, Pandas, NumPy

Tools: Git/GitHub, Pandas, NumPy, Jupyter, Google Colab

AI/GenAI: OpenAI API, LangChain, LLMs, Prompt Engineering

Deployment & Tools: Streamlit, Render, Git/GitHub

Other: Figma (designing), Kdenlive (video editing)

Work Experience

Associate Computer Vision Engineer | Nexilis Electronics India Pvt Ltd **July 2025- January 2026**

- Developed Flask-based REST APIs and backend services for real-time video analytics systems using SQLite3, RTSP streams, and JSON-driven architecture.
- Built the backend pipeline for a real-time fall detection system, including YOLO model training, API integration, and inference workflows.
- Implemented real-time Email/SMS notification functionality in the backend for automated event-based alerts.
- Trained a PaddleOCR character recognition model achieving 96% accuracy on 4,000+ real-world images.

AI/GenAI Projects

Roast My Resume | OpenAI API, Streamlit, Python, Render, GitHub

- Built an AI-powered resume review platform that analyzes resumes and generates personalized improvement suggestions using OpenAI APIs.
- Developed and deployed the application with Streamlit frontend integration and cloud hosting support.

Fake News Detection using BiLSTM & TF-IDF | Python, TensorFlow, NLTK, scikit-learn

- Built a deep learning model using BiLSTM with 92% accuracy on the Kaggle Fake News dataset.
- Implemented TF-IDF vectorization, padding, dropout layers, and LSTM units for sequence classification.
- Evaluated performance using ROC-AUC, F1-score, and confusion matrix.

Certification

- Probability and Statistics (NPTEL – Top 5%)
- Discrete Mathematics (NPTEL)
- Quantum Mechanics (NPTEL - Top 5%)