

# Sejal Chauhan

Software Engineer

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## PROFESSIONAL SUMMARY

Software Engineer with expertise in Python, FastAPI, and LLM orchestration. Delivered production-grade AI systems integrating multimodal content (video, graph, documents) and optimized backend pipelines for latency and reliability. Adept in developing agentic AI workflows, Retrieval-Augmented Generation (RAG), and user feedback loops.

## TECHNICAL SKILLS

- **Languages:** Python, C, C++, SQL, HTML, CSS, JavaScript
- **Frameworks & Tools:** FastAPI, Flask, Keras, TensorFlow, LangGraph, Crewai, OpenAI API, Autogen
- **Databases:** MongoDB, Neo4j
- **AI/ML:** Scikit-learn, CountVectorizer, Cosine Similarity, CNN, RNN, LLM Orchestration
- **Other Tools:** Git, Docker, Postman

## PROFESSIONAL EXPERIENCE

- **Accenture** Aug 2024 – Present  
*Software Engineer Onsite*
  - **Led LLM-driven development:** Designed and scaled Q&A/summarization tools using OpenAI and MongoDB, processing 10K+ queries/month with sub-second latency.
  - **Built multimodal AI pipelines:** Integrated video embeddings, Neo4j graphs, and LLMs via FastAPI and LangGraph, increasing user engagement by 18%.
  - **Optimized agentic workflows:** Automated decision flows with Crewai and LangGraph; reduced failure rate by 40% and enabled real-time feedback-driven updates.
- **Capgemini** Jul 2024 – Aug 2024  
*Associate 1 Onsite*
  - **Web App Development:** Created 3+ responsive web applications with clean UIs and integrated REST APIs using HTML, CSS, and JavaScript.
  - **Cross-functional Collaboration:** Worked with backend engineers and testers to validate 100% of API responses and reduce front-end bugs by 30%.

## PROJECTS

- **Conversational AI Chatbot:** Engineered a multimodal chatbot using OpenAI, LangGraph, integrating video and graph data for contextual conversations. Handled 2K+ queries/month and real-time response orchestration.
- **Movie Recommendation System:** Built a Flask-based recommender system using CountVectorizer and cosine similarity over 500+ movie titles and implemented structured DB queries for efficient data handling.
- **Drowsiness Detection System:** Developed a real-time driver alert system using OpenCV, CNN, and Keras to detect drowsiness via eye/yawn patterns. Delivered 85%+ precision and reduced false alerts by 30% through optimized thresholds.

## EDUCATION

- **ABES Engineering College** Dec 2020 – Jul 2024  
*B.Tech in Computer Science — Ghaziabad, UP CGPA: 8.02/10*

## CERTIFICATIONS

- **Hands-On Python Machine Learning:** Udemy
- **Big Data and Hadoop:** Udemy
- **SQL Basic:** HackerRank
- **HTML, CSS, JS for Web Developers:** Coursera

## ACHIEVEMENTS

- Solved 200+ coding problems across LeetCode, GeeksforGeeks, and HackerRank
- Finalist in SAH Hackathon hosted by ACM Student Chapter, selected from 100+ teams
- Earned HackerRank Problem Solving Certificate