

Sahil Mittal

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EDUCATION

VIT Bhopal University

Bachelor of Technology in Computer Science and Engineering

Bhopal, MP

Aug. 2021 – May 2025

CGPA: 8.65

TECHNICAL SKILLS

Programming Languages: Python, SQL, JavaScript, HTML/CSS

AI/ML Technologies: TensorFlow, PyTorch, Hugging Face Transformers, OpenAI API, BERT, NLP

Cloud & DevOps: AWS (Certified Cloud Practitioner), Docker, FastAPI

Databases: PostgreSQL, Vector Databases (FAISS), MongoDB

Relevant Coursework: Data Structures and Algorithms, Machine Learning, Natural Language Processing, Deep Learning

PROJECTS

AI-Powered Resume Extractor | *Python, NLP, LLM*

Dec. 2024 – Jan. 2025

- Developed an intelligent document processing system using Hugging Face Transformers and fine-tuned BERT models for information extraction from resume PDFs.
- Implemented prompt engineering techniques with OpenAI's API to optimize text analysis and structured data extraction achieving 95% accuracy.
- Built a vector database system using FAISS for semantic search capabilities across processed documents.
- Created a Flask web application with efficient model deployment and optimization for low-latency inference.

Plant Disease Detection System | *Deep Learning, TensorFlow*

Jul. 2024 – Oct. 2024

- Engineered a CNN-based machine learning model with TensorFlow for real-time plant disease identification, achieving 90%+ accuracy.
- Optimized model training and inference using distributed computing techniques for improved latency and efficiency.
- Deployed the model using TensorFlow Serving with a FastAPI backend hosted on AWS, implementing proper model versioning and scaling.
- Developed cross-platform applications (React web, React Native mobile) with efficient API integration for real-time inference.

Emergency Services Platform | *Web Development, API Integration*

Oct. 2023 – Jan. 2024

- Built a responsive web application using modern JavaScript frameworks for seamless user experience across devices.
- Integrated third-party APIs for real-time data processing and implemented efficient error handling and data validation.
- Utilized MongoDB for storing and retrieving emergency service data with proper indexing for optimized query performance.

CERTIFICATIONS

AWS Cloud Practitioner (Amazon Web Services)

Deep Learning Specialization - Coursera (Andrew Ng)

Natural Language Processing with Transformers - Hugging Face

RELEVANT EXPERIENCE

Participated in AI/ML hackathons focusing on financial data analysis and automation solutions.

Achieved 5-star ratings in Python, SQL, and Machine Learning on HackerRank.

Solved 100+ Data Structures and Algorithms questions on LeetCode and GeeksforGeeks.