

# SINSINA V

## AI Engineer

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### ABOUT ME

AI Engineer with expertise in PyTorch, Hugging Face, CNNs, ViTs, and FastAPI, focused on building scalable, production-ready AI applications. Experienced in computer vision, and end-to-end deployment, with strong foundations in data processing and model evaluation.

### TECHNICAL SKILLS

- Strong Python programming skills with extensive experience in SQL and basic JavaScript.
- Proficient in PyTorch, TensorFlow, Scikit-learn & Hugging Face for AI/ML model development.
- Experienced in Deep Learning, CNNs, Transfer learning and Fine-Tuning.
- Skilled data analysis and visualization using Pandas, NumPy, Matplotlib, Seaborn & Power BI.
- Experienced in building production-ready APIs with FastAPI and testing with Postman.

### WORK EXPERIENCE

Tech By Heart Pvt.Ltd. | 2025- Present

#### AI Engineer Intern

- X-ray Abnormality Detection: CNN+Transfer Learning for Real-Time Normal vs Abnormal Class.
- AI Resume Analyzer: Extracts insights and evaluates resumes to streamline recruitment
- AI Chatbot: Hugging Face DialoGPT for interactive conversational responses.

### PROJECTS

#### X-RAY ABNORMALITY DETECTION

- Built an AI-based chest X-ray abnormality detection system using CNNs and transfer learning to accurately classify images as Normal or Abnormal, efficient medical image analysis.
- Applied ImageNet-standard preprocessing and data augmentation techniques to enhance model generalization and improve performance on chest X-ray medical images.
- Trained, evaluated, and saved a PyTorch model for real-time inference and future deployment.

#### AI RESUME ANALYZER

- Built a fully interactive AI-powered resume analyzer using Streamlit, enabling users to upload resumes and receive automated insights in a user-friendly interface.
- Processed, parsed, and analyzed resumes in multiple formats (PDF, DOCX, TXT) using keyword extraction and pattern matching to evaluate candidate profiles and extract key information.
- Designed a custom user interface with login authentication, dynamic results visualization, and interactive dashboards, providing actionable insights to streamline recruitment workflows.

#### AI CHATBOT

- Built and fine-tuned an AI chatbot using Hugging Face DialoGPT by processing, cleaning, and tokenizing Q&A data for effective conversational training and context-aware response
- Trained, evaluated, and saved a deployable model for generating context-aware responses

### EDUCATION

Bachelor of Computer Application | Kannur University | 2022-2025

Depaul Arts and Science College Edathotty, Kannur | CGPA - 8.1