



SUMMARY

Passionate Machine Learning Engineer and Data Scientist with expertise in developing full-stack AI/ML projects and delivering impactful solutions. Specializing in MLOps , Generative AI, and Natural Language Processing  with hands-on experience in Computer Vision, Educational AI Chatbots, and end-to-end model deployment.

WORK EXPERIENCE

AI/ML Intern

Digital Blinc May 2025 - July 2025

- Developed an AI Chatbot for Education using advanced natural language processing and machine learning techniques, implementing intelligent conversational interfaces for enhanced learning experiences.
- Executed end-to-end model training workflows using state-of-the-art AI techniques, implementing deep learning architectures for natural language understanding and response generation.
- Leveraged advanced AI techniques including transformer models, attention mechanisms, and neural language processing to create contextually aware educational chatbot responses.
- Collaborated with cross-functional teams to integrate AI chatbot solutions into educational platforms, focusing on user experience optimization and pedagogical effectiveness.

PROJECTS

[LearnMate](#) – AI Learning Assistant - Python, OpenAI, LangChain, Streamlit, Multilingual NLP, GCP

- Architected and developed a full-stack AI-powered learning platform serving 30+ languages with 95% accuracy, integrating OpenAI APIs, HuggingFace Transformers, and LangChain framework to revolutionize educational content processing.
- Built intelligent document processing engine supporting 15+ file formats (PDF, DOCX, TXT) with 92% extraction accuracy, enabling automated content analysis and interactive document querying for enhanced learning experiences.
- Implemented multilingual natural language understanding system with automatic language detection and cultural nuance recognition, processing user queries in real-time with <2 second response times.
- Designed and deployed advanced learning tools including AI-powered quiz generators, flashcard creators, and concept mapping features, transforming static content into interactive educational materials.

[Sentiment Analyzer WebApp](#) - Python, Deep Learning, TensorFlow/Keras, RNN, Streamlit, Model Deployment

- Developed and deployed a production-ready sentiment analysis application using Recurrent Neural Networks (RNN) with TensorFlow/Keras, achieving multi-class classification (Positive, Negative, Neutral) with confidence scoring and real-time text processing.
- Built end-to-end machine learning pipeline from data preprocessing to model deployment, implementing custom tokenization, sequence padding, and neural network architecture optimization for natural language processing tasks.
- Engineered interactive web application using Streamlit framework with modern UI/UX design, featuring real-time sentiment prediction, visual progress indicators, and emoji-based sentiment representation for enhanced user experience.
- Deployed scalable ML model to production on Render cloud platform with optimized performance, enabling real-time inference for movie review analysis with automated model serving and API integration.

[Hiring Assistant](#) - AI-Powered Recruitment Chatbot - Python, Natural Language Processing, Machine Learning, Conversational AI

- Developed an intelligent chatbot system that streamlines the initial candidate screening process by automating information collection and generating personalized technical questions based on candidate's declared technology stack.
- Implemented advanced natural language processing algorithms to analyze candidate responses and automatically assess technical competency across multiple programming languages and frameworks.
- Built dynamic question generation engine that creates tailored technical assessments based on job requirements and candidate skill profiles, improving screening efficiency by 60% compared to traditional methods.
- Designed and deployed user-friendly web interface using Streamlit with real-time conversation flow, candidate data persistence, and automated report generation for HR teams to review candidate assessments.

EDUCATION

Jaypee University of Engineering and Technology Guna, MP
Bachelor of Technology in Computer Science July 2022 – May 2026

INVOLVEMENT

Coordinator August 2023 - May 2024
Jaypee University of Engineering and Technology Guna • Google Developer Student Club

- Organized and participated in 5+ technical workshops and hackathons, focusing on technologies like Google Cloud, HuggingFace, engaging over 200 students.
- Facilitated peer learning sessions on topics like Machine Learning, Deep Learning, NLP, increasing club participation by 25%.

SKILLS

HTML, CSS, C++, Python, SQL, Flask, Fast API, PyTorch, TensorFlow, Machine Learning, Deep Learning, NLP, ML-Flow, HuggingFace, LangChain, LangGraph, AWS, GCP, CI/CD,Git and Github, Docker, Dagshub, DVC