

YASH KUMAR SINGH

AI/ML Engineer

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ABOUT ME

Aspiring AI Engineer with a strong foundation in machine learning, deep learning, and data analysis. I am passionate about building intelligent systems that solve real-world problems and am currently honing my technical skills through hands-on projects and continuous learning. Seeking an entry-level position to apply my expertise in a collaborative environment and contribute to cutting-edge AI innovations.

WORK EXPERIENCE

INFINITY AI Solutions – AI Intern

JULY 2025 – PRESENT

Worked on end-to-end projects within the machine learning lifecycle, specializing in Computer Vision and Large Language Models. My experience includes developing and optimizing neural network architectures, managing large-scale datasets to enhance model performance, and contributing to the deployment of production-level AI solutions.

- Supported the core team in implementing fundamental Generative AI practices, specifically assisting with the setup for fine-tuning Large Language Models (LLMs).
- Assisted in the preparation and preprocessing of large-scale datasets, ensuring data readiness to support the team's model training workflows.
- Collaborated with senior developers to test and deploy basic model integrations via REST APIs, helping to validate early-stage AI solutions.

PROJECTS

SnapDiet – AI powered Food Classification platform

Tech Stack: TensorFlow, Keras, OpenCV, FastAPI, React, Spoonacular API, REST APIs

- Developed a Convolutional Neural Network (CNN) with TensorFlow and Keras for multi-class classification of Indian cuisine, achieving precise food recognition from images.
- Engineered a responsive frontend using React, enabling users to upload food images in real-time for immediate analysis and interaction.
- Deployed a high-performance FastAPI backend to serve the CNN model, establishing an efficient API endpoint for prediction requests.
- Implemented RESTful endpoints to handle image processing and integrated predictions.
- Integrated the complete stack to seamlessly display the predicted dish and its nutritional breakdown, enhancing the overall user engagement.

MediLLaMA – Fine-Tuned LLM for Medical Q&A

Tech Stack: LLaMA-2, Hugging Face (Transformers/PEFT), LoRA, PyTorch, Quantization

- Fine-tuned LLaMA-2-7B using LoRA (Low-Rank Adaptation) and 4-bit quantization for efficient training on limited GPU resources.
- Specialized the model for healthcare Q&A using the MedDialog (English) dataset, enhancing its ability to understand patient symptoms and generate medically relevant responses.
- Applied parameter-efficient fine-tuning (PEFT) with Hugging Face's transformers, datasets, and peft libraries for rapid iteration and low memory consumption.
- Designed a custom prompt-response format to mimic realistic patient-doctor interactions.
- Deployed and evaluated the model using Hugging Face pipelines to simulate clinical consultation scenarios.

CERTIFICATIONS

• Career Essentials in Generative AI	–	Microsoft & LinkedIn (2024)
• Deep Learning A-Z	–	Udemy (2025)
• Generative AI for Beginners	–	Udemy (2025)

EDUCATION

SHRI RAMSWAROOP MEMORIAL UNIVERSITY

2021–2025

- B.Tech in Computer Science
- Relevant Coursework – Specialization – AI/ML/DL
 - CGPA – 7.26

SKILLS

• Languages	–	Python, C++, JavaScript
• AI/ML	–	TensorFlow, PyTorch, OpenCV, Hugging Face
• GenAI	–	LLMs, Transformers, RAG, LoRA, Fine-Tuning
• Tools	–	Git, Docker