

Purusharth Malik

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EDUCATION

CHRIST (Deemed to be University)

Master of Sciences (Artificial Intelligence and Machine Learning), 3.92/4.0

Bangalore, Karnataka

July 2023 – May 2025

University of Delhi

Bachelor of Science, Honours in Mathematics, 8.27/10.0

New Delhi

August 2019 – May 2022

EXPERIENCE

AI Engineer

Swiggy

June 2025 – Present

Bangalore, Karnataka

- Technology Stack - Python, LangChain, LangGraph, PyTorch, HuggingFace
- Working on building AI functionalities at CREW
- Creating a custom evaluation framework for customer-facing LLMs

Software Engineer - Artificial Intelligence

Metrum AI

February 2025 – May 2025

Bangalore, Karnataka

- Technology Stack - Python, PyTorch, Docker, LangGraph, AWS, LangChain, HuggingFace
- Worked with AMD and Dell to create AI applications to showcase hardware capabilities
- Worked with Stable Diffusion to create digital avatar plug-ins for different modules

Machine Learning Engineer

SMOOR Chocolates

October 2024 – January 2025

Bangalore, Karnataka

- Technology Stack - Python, AWS, HuggingFace, PyTorch
- Worked with the finance team to automate inventory management pan India
- Worked on an agentic framework to improve the customer service pipeline

Data Scientist

NayaOne

August 2024 – October 2024

Remote, London

- Technology Stack - Python, PyTorch, HuggingFace, AWS EC2, Docker, Kubernetes, CrewAI
- Provided automation for sales and marketing teams
- Created multi-agent systems to perform trend analysis

LLM Engineer

Iolite Technologies

May 2024 – August 2024

Bangalore, Karnataka

- Technology Stack - Python, PyTorch, HuggingFace, Flask, AWS EC2, React.js
- Created an LLM-driven chatbot for the university's ERP system
- Finetuned multiple pre-trained LLMs after performing quantization using LoRA

PROJECTS

Swin-VQA | Python, PyTorch, Transformers, OpenCV, Pillow

[Source Code](#)

- Created a visual question-answering system for assistance in the field of radiology.
- Used CLIP for visual encoding and a fine-tuned Llama-2 model for text encoding.
- Created custom decoder layers inspired by DeiT and Swin Transformers.

AutoQuote | Python, PyTorch, LangChain, MongoDB, Flask, JavaScript, HTML, CSS, Pinecone

[Source Code](#)

- A web application that is able to automate the process of generating quotations for high-end hotel chains.
- Integrated language models with MongoDB and Vector DB to generate a quoted bill-of-quantity in the form of an Excel document.
- The project is in collaboration with Shanti Metal Industries and is currently in production.

TECHNICAL SKILLS

Python, PyTorch, Tensorflow, LangChain, LlamaIndex, LangGraph, HuggingFace, Statistical Machine Learning, Deep Learning, MongoDB, MySQL, Redis, MATLAB, AWS, Milvus, Pinecone, vLLM, TensorRT, Linear Algebra, Computational Mathematics, Problem Solving, Probability & Statistics