

DEEPENDRA VERMA

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[GitHub](#) | [Portfolio](#)

Skills

- **Generative AI:** Transformer models(**Open**-GPT, Llama, Gemma, Mistral, Phi, **Paid** - OpenAI, Gemini), Groq, Ollama), Fine-tuning, Hyperparameter tuning(Optuna), Quantization, peft, LoRA, rsLoRA, QLoRA, AI Agents(CrewAI, AutoGen, LangGraph), Huggingface
- **Python:** (NumPy, Pandas, Matplotlib, Seaborn, Scikit- Scipy, Scrapy, Beautiful Soup, Flask, TensorFlow, NLTK, Langchain, LlamaIndex)
- **Machine Learning:** Supervised, Unsupervised, Reinforcement Learning algorithm
- **Deep Learning:** (RNN, CNN, LSTM), Transformer
- Amazon bedrock, Amazon SageMaker, Amazon Q Learn
- **Prompt Engineering:** (Chain of Thoughts, Tree of Thoughts Self-consistency)
- GitHub, GitLab, DVC, MLflow, Docker
- MySQL, VectorDB(Pinecone, ChromaDB, FAISS-CPU)
- Agile Methodology, JIRA

Work History

Netweb Technologies | Generative AI, Fine-tuning, RAG, AI agents, LLMs(Llama, GPT), Quantization, Langchain, LoRA, QLoRA, rsLoRA

AI Team Lead | Gurugram, India

07/2024 to present

- RFP generation using **Llama 3.1 70B and 8B** model with quantization up to **fp16** with **rsLoRA** to more stabilizing. **Huggingface** for the model with **hyperparameter tuning using Optuna**. **Data Augmentation to fine-tune** the model on RFP generation and to make LLM understand about mathematical operations. Used **Docker and Kubernetes**.
- **Computer vision** project by using **YOLOv5** for object and employee detection in the manufacturing plant.
- **Led a team** of 7 AI engineers and AI researchers.

Careers360 | Generative AI, RAG, AI agents, Machine Learning, AWS, LLMs, Recommendations

Associate Product Operation | Gurugram, India

01/2022 to 07/2024

- Ideated and developed **Chatbot** using **RAG**, eBooks Recommender System, Multi-PDF Reader, and CSV/Excel chatbot - increased traffic and registration by 55%.
- Led natural language to SQL project using **Langchain, VectorDB, RAG**, and word embedding for content creation.
- Led 10+ **Generative AI** projects including content creation using LLMs from top 5 SERPs and government URLs, **and text summarization** that increased productivity by 200%.
- Developed a content updation tracking system using **NLTK**.
- Trained different models for **spam detection**, and rank predictors using machine learning algorithms.
- Managed and executed 10+ projects with sheet automation and data visualization with **Tableau, Power BI, and SQL** while leading diverse teams in achieving milestones.

Toppr Technologies Pvt. Ltd | MySQL, Tableau, Power BI, Google Spreadsheet, Team lead

Associate Team Lead | Remote

07/2021 to 01/2022

- Data Analysis and Visualizations – **Tableau, Power BI, SQL, Google Spreadsheet**
- Led and managed a team of 18+ members, achieving a 90% happy session rate, resolving over 0.52M doubts, and 6% FRT.
- Oversaw creation of solutions for 25000+ questions to increase solution suggestion rate by 4%, and decrease average handling time by 1.5 minutes

Careers360 | Content creation, Student mentoring, Team lead, MySQL

Subject Matter Expert | Gurugram, India

07/2019 to 07/2021

Toppr Technologies Pvt. Ltd | Content creation, Student mentoring, Doubt clearing, Google Spreadsheet

Subject Matter Expert

01/2019 to 07/2019

Moeff Technologies

Design Engineer

06/2016 to 06/2018

Education

Professional Certification: Data Science

01/2023

Purdue University

01/2016

M.Tech

National Institute of Technology

Certifications

- Data Science, Data Science with Python
- Statistics Essentials for Data Science
- Quantization, AI agents, Fine-tuning, Advanced RAG
- Deep Learning, Natural Language Processing
- Generative AI, Deep Learning, Machine Learning
- Tableau, Power BI, SQL, Project Management, Scrum, Agile Methodologies

Accomplishments

- GATE 2017 AIR – 950 (99.58 percentile)
- Starstruck on GitHub

Projects

Generative AI and NLP	Top 5 SERP Content Creator, Multi PDF Chatbot, Multimodal Chatbot, RAG Based SQL Chatbot, AI-YouTube-Lecture-Transcriber, Raw video to Blog generator using GCP, Text Summarizer using OpenAI, Resume ATS Tracker, eBook Recommender using Gemini-embedding, Song Recommender using BERT, Q&A Chatbot using Langchain, Exam Chatbot using Llama-2, Blog Generator using Llama-2, Content updation tracking system
Deep Learning	Chicken Disease Classification using AWS, Lung Disease Classification using CNN, Pet Classification Model using CNN
Machine Learning	Healthcare CVD Prediction, Book Recommender System, IPL Prediction, Healthcare Diabetes Prediction, Student Marks Predictor, Food Time Delivery Prediction, Credit Card Fraud Detection
Data Visualization	Comparative Study of Countries - Dashboard, Sales Comparison by Region - Dashboard, Road Accident Analysis - Dashboard, Healthcare Diabetes Analysis - Dashboard