# Anurag Bhandari

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## SUMMARY

Anurag Bhandari is a data science professional specializing in generative AI, large language models (LLMs), machine learning, and deep learning. He has experience fine-tuning transformer-based models, developing AI-driven solutions, and orchestrating multi-agent workflows using Langchain and LangGraph. Anurag has contributed to innovative projects involving LLM pipelines, RAG applications, and NLP advancements, leveraging state-of-the-art AI technologies to solve complex challenges and optimize performance.

## EDUCATION

**Jaypee Institute of Information Technology**                                **Noida, Uttar Pradesh**
**B.TECH CSE**                                                                          **2021-2025**

**Green Fields Public School**                                           **Safdarjung Enclave, New Delhi**
**High School**

## PROFESSIONAL EXPERIENCE

**DATA SCIENCE INTERN**                                              **May 2024 -  August 2024**
**INNATE AI**

- Improved data preprocessing pipelines by implementing efficient workflows, resulting in 50% reduced data processing time.
- Fine-tuned LLMs & Transformer Models by optimizing hyperparameters, which enhanced task-specific performance by 40%
- Developed a RAG application for Text-to-Cypher query generation by integrating advanced algorithms, resulting in enhanced query accuracy by 60%.
- Orchestrated Agentic workflows using LangGraph and Langchain, resulting in state of the art LLM based pipelines.

**AI ENGINEER INTERN**                                                   **Oct 2023 -  Nov 2023**
**WISEOPS AI**

- Automated Athena Database SQL query generation by leveraging LLMs, Langchain, and Chainlit, which resulted in increased query generation efficiency by 70%
- Optimized data pipelines for data preparation by implementing robust processes, leading to improved data readiness.
- Enhanced data ingestion in RAG applications by web scraping documentation websites, resulting in better data availability.

**ANALYST INTERN**                                                         **Jun 2023 - Aug 2023**
**SKILL ROUTE ADVISORS LLP**

- Fine-tuned diffusion-based models by customizing them to customer needs, resulting in improved model accuracy by 30%.
- Developed transcribing desktop application by integrating advanced features, resulting in improved real time transcription.
- Improved image classification tasks by implementing cutting-edge techniques, which increased the classification accuracy by a significant measure.

**OPEN SOURCE**

- Enhanced model performance by making valuable code contributions, including calibrating models which resulted in significant improvement in model accuracy by 40% in their BugBug project
- Recognized in Mozilla's Engineering Effectiveness Newsletter March and April 2023 edition

## SKILLS

Python, Machine Learning, Deep Learning, Generative AI, LLMS, Data Analysis and Visualization, NLP, Docker, Git, Github, SQL, Data Exploration, Feature Engineering, Langchain/LangGraph, Pandas, PyTorch, Cloud Technologies, Agile Development, Vector Databases, Linux, Prompt Engineering, AI Chatbots, AI Agents

## PROJECTS

**WebWiz**
WebWiz is a **multi-agentic** web search agent which uses **LangGraph** to implement **agentic workflow** to give you the best web search results. It is comprised of various agents and tools like Planner, websearch, Researcher, Scraping, Reporter, Reviewer tool. It is compatible with OpenAI, Gemini, Cluade and Groq. It even has a chainlit frontend.

**Gandalf**
Developed a dual-purpose financial **GenAI** chatbot using Large Language Models (LLMs) and **Retrieval Augmented Generation (RAG)** that combines **fraud detection** and **financial advisory capabilities**. Implemented using **Zephyr-7B** LLM and ChromaDB for vector storage, the system analyzes financial statements for potential fraud while simultaneously providing personalized financial guidance through an interactive Streamlit interface.

**Image Classification**
Custom **RESNET9** architecture based **CNN** Model for the task of **Image Classification** on 131 categories of fruits and vegetables with 99% accuracy on the testing dataset.