VISHAL SHIVNANI

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OBJECTIVE

Generative AI Engineer skilled in developing and fine-tuning LLMs, Retrieval-Augmented Generation (RAG), and optimizing Transformer-based architectures. Experienced in deploying AI solutions using LangChain, Hugging Face, and TensorFlow. Passionate about leveraging AI for real-world applications with scalable and efficient models.

EXPERIENCE

Data Quality Analyst I | Arihant Technologies
Jan 2024 – PRESENT

- Led a team of annotators to ensure high-quality labeled datasets for ML model development.

- Optimized annotation workflows, improving data integrity and consistency.

- Collaborated with the ML team to refine data requirements, enhancing model performance.

Technical Support Engineer | Talview
Aug 18 – Dec 23

- Provided technical support for the Talview Platform, ensuring smooth client operations.

- Diagnosed and resolved issues using Insomnia, Jira, and advanced MS Excel.

- Collaborated with engineering teams to improve platform performance and user experience.

⚒ SKILLS

Machine Learning & AI: Deep Learning, Transformers, Fine-Tuning, Recommendation Systems, Evaluation Techniques, Time Series Forecasting

NLP & Generative AI: RAG, Prompt Engineering, Stable Diffusion, GANs, Hugging Face, Ollama

Computer Vision & Time Series: OpenCV, Stable Diffusion, Time Series Analysis

Data Processing & Analytics: Scikit-Learn, SciPy, Data Visualization (Tableau, Power BI)

Frameworks & Libraries: TensorFlow, PyTorch, LangChain, Gensim, Phidata

Vector Databases & Retrieval: ChromaDB, FAISS, Pinecone, Astra DB

Deployment & MLOps: AWS Bedrock, Streamlit, Docker, GitHub, Google Colab

Programming & Databases: Python, SQL, MongoDB

⋯ PROJECTS

Financial AI Assistant *(Python, LangChain, YFinance, DuckDuckGo API)*

- Developed an AI-powered financial recommendation system using **multi-agent models**.

- Integrated real-time financial news and stock data, improving **recommendation accuracy**.

Calorie Counter – Large Image Model (LIM) *(Gemini, OpenCV)*

- Built an AI-based **food image recognition system** to estimate **calorie values**.

- Deployed using **Gemini API**, achieving **90% accuracy in calorie estimation**.

Conversational AI Bots *(Google Gemini, Streamlit)*

- Developed a **Data Science Instructor bot** with memory retention for enhanced user interaction.

- Implemented **custom AI pipelines**, leading to **20% better response accuracy**.

RAG-Based Q&A Bots *(ChromaDB, LangChain)*

- Designed and deployed **two knowledge-based AI assistants** querying **Bhagavad Gita & Ramayana**.

- Improved **retrieval efficiency by 40%** using optimized vector search techniques.

YouTube Transcript Summarizer (Python, YouTube Transcript API)

- Developed an **AI-powered summarization model** that extracts and condenses transcripts from YouTube videos.

- Utilized **YouTube Transcript API** and **NLP techniques** to generate concise, context-aware summaries, improving readability and efficiency.

- Deployed as a web-based tool, enhancing accessibility for content consumers.

Medical Test Results Classification (Scikit-Learn, Pandas, Machine Learning)

- Built an **ML classification model** to categorize medical test results into **Normal, Abnormal, and Inconclusive**.

- Trained using **structured patient data**, achieving **high classification accuracy** in clinical test datasets.

- Implemented **data preprocessing techniques** to handle missing values and outliers, improving model reliability.

EDUCATION

Graduation | GOVERNMENT ENGINEERING COLLEGE AJMER
2012 – 16

Senior Secondary | ALL SAINTS SE. SEC. SCHOOL
2011 – 12

Secondary | ALL SAINTS SE. SEC. SCHOOL
2009 – 10

PERSONAL SKILLS

- **Collaboration & Leadership:** Led and worked with cross-functional teams to ensure data integrity and quality, overseeing annotation processes and resolving technical issues in fast-paced environments.

- **Problem-Solving & Adaptability:** Proven ability to diagnose and resolve data inconsistencies, troubleshoot technical issues, and adapt to evolving data quality challenges.

- **Critical Thinking & Decision-Making:** Strong analytical skills in evaluating data accuracy, optimizing annotation workflows, and implementing quality control measures.

- **Resilience & Work Ethic:** Committed to maintaining high data standards, meeting tight deadlines, and ensuring smooth operations in technical support and data quality roles.

- **Communication & Stakeholder Engagement:** Effectively communicate technical insights, coordinate between ML teams and annotators, and translate data issues into actionable solutions.