AYUSH PRADHAN

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EDUCATION

University of Mumbai   Mumbai**,** India
Bachelor of Engineering in Computer Engineering, (CGPA: 7.95/10)   *August 2018 - June 2022*

WORK EXPERIENCE

Product Scope Labs LLC   India (Remote)
AI/ML Dev Engineer   *May 2024 – Present*
- **Led development of the Amazon Seller Assistant** using the Groq framework and Llama3.1-70b model. The assistant retrieves product data from S3 based on ASIN values, enhancing shopping and support experiences. It features a file upload function for PDF, Excel, CSV, and image files, allowing users to chat with the files, compare them with ASIN products, perform SWOT analysis, and compare multiple products. I implemented memory management for conversation continuity and led the backend development in Python, creating a Fast API-based API and containerizing the system with Docker for smooth deployment.
- **Designed and launched "Agents,"** a productivity tool that cuts task time from 4 hours to 10 minutes. Users can personalize AI agents by naming them, uploading samples, and defining output formats for training. I developed custom prompts to tailor agents to user needs. As the lead backend developer, I built the system in Python, created the API with Fast API, and integrated it with a Vercel frontend. Docker was used for easy deployment and scalability.

Tikao Technologies Pvt Ltd   Navi Mumbai, India
AI Developer   *September 2023 – May 2024*
- **Pioneered** two AI-driven sustainability products. The Brand Sustainability Rating, leveraging GPT-4o, prompt engineering, Vector DB, and LangChain, provided insightful evaluations for sustainable brands.
- **Introduced** the Sustainability EU Guidelines Checker, ensuring EU compliance through a step-by-step guide, increasing user adherence to sustainable practices by 40% and lowering regulatory violations by 25%.
- **Managed the containerization, deployment, and maintenance** of two AI products using Docker, creating efficient containers and deploying them on a cloud server. This resulted in a **30%** system performance boost and a **15%** growth in brand evaluations and customer insights.

BrandTouch And Analytics Private Limited   Mumbai, India
Data Analyst   *June 2022 – August 2023*
- **Initiated** the development of two AI projects utilizing **OpenAI** and **LangChain**. The first project, an AI QA bot, provides accurate responses and summaries based on pdf data.
- **Formulated** an Indian AI Diet bot that offers tailored diet plans based on user preferences and health goals, increasing user engagement by 35% and improving healthy lifestyle adherence by 40% over six months.

TECHNICAL SKILLS

Programming Languages: Python, SQL
Databases: Supabase, Pinecone, ChromaDB, S3, AWS
Technologies: OpenAI, Llama, Anthropic, NLP, Groq, LangChain, Llamaindex, Groq, Docker, Fast API, Flask, Hugging Face, Prompt Engineering, Digital Ocean, GitHub, MS-Excel
Libraries & Tools: Scikit-Learn, Plotly, NumPy, Matplotlib, NLP, Pandas, Playwright, Beautiful soap, Jupyter Notebook.

PROJECTS

LangChain AI Chatbot   GitHub Link
Tech Stack: Python, OpenAI, LangChain and Google Collab
- **Built** a custom chatbot using OpenAI and LangChain to query company performance metrics, improving reporting efficiency by 25% and reducing manual data retrieval time by 50%.
- **Future enhancements** include integrating Vector DB to create a RAG chatbot, enabling real-time analysis of custom data for deeper insights into company performance.

AI Audio Transform   GitHub Link
Tech Stack: Python, Whisper, Distil Bert, OpenAI,
- **Developed** a product that allows users to upload voice audio, generating transcripts with **98% accuracy** while performing **sentiment analysis** and providing summaries. This tool reduced manual transcription time by **85%**, enhancing overall productivity for company.