PRATHAM SHARMA

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Experience

Bain and Company   **June 2024 – Present**
Associate Engineer – AI Solutions Team

- Developed scalable AI-driven internal tools integrating **LLMs (GPT-4)**, with support for RAG workflows and enterprise-grade prompt engineering pipelines.

- Built and deployed robust CI/CD pipelines for GenAI microservices using **GitHub Actions, Pytest, and Jest**, automating regression testing and cloud deployment.

- Led the design of a **Retrieval-Augmented Generation (RAG)** testing framework utilizing NLP heuristics, confidence scoring, and adaptive sampling to improve hallucination resistance.

- Contributed to Bain's **AI knowledge validation** stack by benchmarking LLM responses using smart sampling, accuracy scoring, and statistical model agreement checks.

- Worked with **Azure AI Foundry** to operationalize prompt chains, embedding LLM modules into internal tools via **semantic search, embeddings**, and user-intent pipelines.

KPMG India   **January 2024 – June 2024**
Risk Analyst

- Pioneered the development of **KIRA** at **KPMG India**, driving automation in reconciliation processes, leading to a **50%** reduction in processing time.

- Successfully executed numerous reconciliation tasks, meticulously comparing financial records to uncover inconsistencies and discrepancies, thus ensuring financial accuracy and integrity.

- Innovated the creation of a **Physical Asset Verification Tool** at **KPMG**, streamlining client-side audit processes and significantly cutting down data compilation time.

Technical Skills

Languages: Python, FastAPI, C++, JavaScript, SQL , React, Node.js, Express
AI Tools: GPT-4, LangChain, Azure AI Foundry, PromptFlow
DevOps: GitHub Actions, Pytest, Jest
Cloud & DB: Azure, REST APIs, MongoDB, PostgreSQL

Education

Guru Nanak Dev University   **Amritsar,Punjab**
Bachelor of Technology in Computer Science and Engineering ; CGPA: (8.41/10.0)   *June 2020 – July 2024*

Shri Ram Ashram Public School   **Amritsar,Punjab**
Grade 12: Science Education ; Percentage: 94.8   *April 2018 – April 2020*

Shri Ram Ashram Public School   **Amritsar,Punjab**
Matriculation General Subjects ; Percentage: 94.6   *Till April 2018*

Projects

DealDome | *Link*

- Facilitated an E-Commerce website that offers a smooth and easy online shopping experience, featuring ***user-friendly navigation***, significantly faster loading times and convenient ***product filters*** to enhance your experience.

- Utilized technologies: **ReactJS**, **API'S** , **JavaScript**, **Auth0** , **Redux** .

StatSnap | *Link*

- Prepared a innovative retail dashboard that fueled business expansion by providing real-time insights. Integrated critical metrics such as total sales (***161K***), profit sum (***26K***) and total quantity (***2008 units***), transforming data into informed decisions.

- Leveraged intuitive visualizations like ***bar graphs***, ***pie charts*** and ***line charts*** to illuminate sales trends, inventory turnover and product preferences. A key contributor to enhancing performance and achieving unprecedented success.