



VAISHAGH P

Passionate AI & Data Science Engineer

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PROFESSIONAL PROFILE

AI & Data Science Engineer with 4 years of experience designing and deploying enterprise-scale AI/ML solutions. Proven success in developing GenAI-powered chatbots, NLP pipelines, and real-time analytics platforms. Recognized at Databricks Data + AI Summit 2025 for a chatbot solution showcased by an HP Director & received CFO recognition for another chatbot solution. Proficient in MLOps (Databricks, CI/CD), LLM deployment, and cloud environments (AWS, Azure). Adept at transforming complex problems into AI-powered tools that drive strategic business value.

WORK EXPERIENCE

DATA SCIENTIST I

- Hewlett Packard (HP) (Apr,2024 - Present)

- Led development of the GenIT Print ELT Reporting Chatbot, a GenAI solution showcased at the Databricks Data + AI Summit 2025 by HP's TIO Director.
- Recognized by CFO for the path breaking innovation on AI chatbot solution developed to analyse the financial metrics and provide insights to the leadership.
- Designed and implemented a cost-efficient Generative AI chatbot leveraging open-source models like LLAMA 3, Phi 4, Mistral, and DBRX, enabling secure, real-time insights from diverse data modalities, including text and structured/tabular data, within 30 seconds.
- Designed a visually appealing chat UI with advanced features such as response time tracking, data source details, favourite prompts, chat export (single/entire chat as PDF), and a user feedback mechanism to improve user experience using Python (Flask framework) with a responsive front-end built using HTML, CSS, and JavaScript, ensuring seamless functionality across devices.
- Developed an end-to-end AI-driven solution to analyze and summarize millions of customer feedbacks, integrating Microsoft Copilot in Word and multilingual translation (100+ languages) to enhance global market reach.
- Built custom AI agents to classify customer comments, sales employee survey results, VIA survey results with over 90% accuracy and identify prompt intent, enhancing automated customer support and feedback analysis.
- Developed specialized AI agents for NLP tasks such as Named Entity Recognition (NER), Text Summarization, Sentiment Analysis, Text Classification, and Structured Output Generation, utilizing both open-source LLMs (LLAMA, Mistral) and cloud-based models (GPT, Databricks, etc.).
- Applied advanced Generative AI & NLP methodologies, including retrieval-augmented generation (RAG) and engineered scalable data pipelines and automated AI workflows using Python, PySpark, SQL, and Databricks, ensuring efficient ETL processes for handling large-scale datasets.
- Deployed scalable chatbot on AWS EC2 with Power BI, PDF, and PPT integration for cross-functional accessibility.

KEY HIGHLIGHT

Chatbot Presentation in Databricks Data + AI Summit 2025

- [YouTube](#)
- [Databricks](#)

SKILLS

AI/ML & LLMs:

- Generative AI
- NLP
- RAG
- Sentiment Analysis
- LLAMA 3, Mistral, GPT, DBRX, MS Copilot
- LangChain
- DSpy

Frameworks:

- HuggingFace
- Ollama
- OpenAI

MLOps & Deployment:

- Databricks
- Auto ML
- CI/CD
- Git
- AWS & Azure

Programming & Tools:

- Python
- SQL
- PySpark
- Power BI
- Power Apps
- Power Automate
- Anaplan
- Machine Learning
- SSIS
- Excel (VBA)
- Power Pivot Modelling
- C#
- HTML, CCS, JS (Frontend)

BUSINESS ANALYTICS CONSULTANT (Contingent Worker at HP)
- Quess Corp Limited (Sep,2022 – Mar,2024)

- Introduced AI-powered automation by applying NLP and Generative AI models to analyze business trends and provide actionable insights, improving strategic planning.
- Developed and automated data pipelines using Python, SQL, and Power BI, optimizing ETL processes for structured and unstructured data.
- Designed and implemented scalable data processing frameworks to enhance data storage, transformation, and query performance across business functions.
- Built interactive dashboards and reporting solutions using Power BI, Power Apps, and C#, streamlining business analytics and decision-making.
- Led financial analytics initiatives, developing predictive models to optimize revenue, expenses, and profitability through data-driven decision-making.
- Automated critical business processes such as PO accruals, Sales Commission, Inventory Control, and OPEX Management using Python, VBA, and automation frameworks, ensuring scalability, efficiency, and accuracy in financial operations.
- Developed and deployed real-time analytics dashboards using Power BI and SQL, enhancing business visibility, performance tracking, and data-driven decision-making across key functions.

ASSOCIATE FINANCIAL ANALYST (Contingent Worker at HP)
- Manpower Group (Dec,2021 – Aug,2022)

- Designed and implemented end-to-end data pipelines using Python and SQL, automating ETL processes for large-scale financial datasets.
- Developed advanced financial reporting solutions with Power BI, ensuring accurate, real-time data visualization for business stakeholders.
- Created data validation frameworks to maintain data integrity and consistency, improving reporting accuracy.
- Automated key financial processes through Python scripting and workflow automation, reducing manual efforts and improving operational efficiency.

EDUCATION

M-TECH IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
- (2024, WILP - Present) BITS Pilani

BACHELOR OF TECHNOLOGY (HONS) IN MECHANICAL ENGINEERING
- 9.02 cgpa (2021) APJ Abdul Kalam Technological University

CERTIFICATIONS

- GOOGLE DATA ANALYTICS PROFESSIONAL CERTIFICATION** - Google
- POWER BI ESSENTIAL TRAINING** - LinkedIn Learning
- PYTHON (ADVANCED PANDAS) ESSENTIAL TRAINING** - LinkedIn Learning
- MICROSOFT SQL SERVER ESSENTIAL TRAINING** - LinkedIn Learning
- C# AND .NET ESSENTIAL TRAINING** - LinkedIn Learning
- GIT ESSENTIAL TRAINING** - LinkedIn Learning
- SELENIUM ESSENTIAL TRAINING** - LinkedIn Learning

SOFT SKILLS

- Leadership
- Problem-Solving
- Project Management
- Communication

LANGUAGE SKILLS

- English (Proficient)
- Hindi, Tamil (Intermediate)
- Malayalam (Native)

INTERESTS

- Generative AI
- Data Science
- Learning new technologies
- Reading