

Vishwas KA

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Professional Experience

- | | |
|--------------------------------|---|
| 2024/12 – present
Bengaluru | Senior Software Engineer - Gen AI
<i>Infiniti Research</i> <ul style="list-style-type: none">• working as Generative AI engineer to automate generating 100k+ reports. |
| 2021/11 – 2024/12
Bangalore | Senior Systems Engineer
<i>Infosys</i> <ul style="list-style-type: none">• Prototyped and delivered Gen AI-powered solutions using RAG technique.• development of generative AI applications for various use cases using LLMs• Converted data into actionable insights with Power BI for data analysis and insights |

Education

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|--------------------------------|---|
| 2017/08 – 2021/08
Banglore | B.E. - Mechanical
<i>Ramaiah Institute of Technology</i>
CGPA: 8.1 |
| 2015/06 – 2017/06
Mangalore | Class 12 (PUC)
<i>Vikas Pre university college</i>
Percentage: 91.3 |
| 2014/04 – 2015/03
Bellary | Class 10
<i>Kendriya vidyalaya bellary</i>
CGPA : 9.8 |

Skills

Gen AI

LLMs, Langchain, CrewAI, AWS bedrock, AzureopenAI

Data Science

Matplotlib, Seaborn, Numpy, Pandas, Power BI, ScikitLearn, NLP

Languages / Frameworks

Python, SQL, HTML, CSS, Gradio, Streamlit

Projects

Automated Reports generation using LLM

- Worked as a Generative AI Engineer to automate the generation of over 100,000 reports by utilizing crewAI Agentic workflow.
- Implemented using Langchain, vertex AI foundation models.

- Designed and implemented scalable solutions to streamline report generation workflows, ensuring accuracy and reducing manual effort.

Document Question answering using RAG techniques

(12 weeks)

- Developed and implemented RAG techniques using LLMs for document question answering, resulting in a 30% increase in accuracy.
- Built the RAG pipeline for various user input format (PDF, docx, ppt, word, audio)
- Collaborated with team members to successfully complete the project on annual report question answering.

Advanced RAG and RAGAS for document QNA

(9 weeks)

- Developed Advanced RAG technique to improve the model Response.
- Worked on Reranking, content compression to retrieve the better response.
- Implemented RAGAS framework to evaluate the RAG pipeline for retriever and generator.

Multimodal RAG for images and Tables QnA

(3 weeks)

- Identified the crucial role of information present in tables and images for Document Question answering using multi modal LLM
- Developed a model to accurately extract information from tables and images, significantly improving the performance of document question answering.

Natural language to SQL query generator app

(3 weeks)

- Developed a NL to SQL converter app enabling users to seamlessly translate natural language queries into SQL commands using LLMs.
- Implemented database query functionality within the app to retrieve and manipulate data efficiently.

Invoice extractor

(2 weeks)

- Built a simple streamlit app to extract the key information from the invoice
- Generated Summary and analysed the Invoice using foundation models (LLMs)

Built GenAI usecases POC for internal and external client

(8 months)

- Leveraged bedrock and Azure OpenAi LLMs to build GenAI usecases like outlook chain Analyzer, KPI extractor, data visualization using Panadas AI
- Deployed and hosted in internal platform

Power BI reports for Banking Sector

(1 year)

- Gathered requirements from clients and analyzed those requirements and provide estimates.
- Collaborated with ETL team to load data in Oracle.
- Created different visualizations like line, bar, Pie, Stacked Column charts, Tree maps, cards and tables
- Developed Power BI reports & Effective dashboards after gathering and translating end user requirement.