

Koti Sai Ramesh Kumar

Software Engineer

Skills Summary

Ramesh is currently working as a Software engineer. He is a highly motivated and energetic developer with excellent product development and has a fair understanding of generative AI.

Technical Proficiency

Programming Languages

- Python
- C#
- Typescript

Desktop Platforms

- Windows
- Linux

Development Tools

- Visual Studio Code
- Visual Studio
- Google colab
- Amazon Sagemaker
- Jupyter
- JetBrains IDE

Databases

- MySQL
- MsSql server
- PineCone, Faiss (Vector database)
- MongoDB
- PlanetScale

Framework/SDK

- Django
- Langchain
- Next JS
- .Net Core

Other technologies

- Generative AI
- Snowflake
- ArcGis pro

Design/Architectural Patterns

- MVT(Model View Template)
- MVC(Model View Controller)
- MVVM(Model View ViewModel)

Projects executed:

Project: Retrieval Augmented Generation POC

Organization: Techment technology Pvt Ltd

Project Description:

Using the Langchain framework developed a retrieval augmented generation application on top of Generative AI where our client needed to interact with a Large language model which will have a knowledge base augmented in the form of PDF. We created an interface using Streamlit at frontend where the user is asked to upload their Pdf document. Python script is written in such a way that the text is extracted from uploaded Pdf and is embedded to store in Vector Db(Faiss/Pinecone). Further when the user asks a question to the LLM, the algorithm performs similarity search to find relevant answers and feeds it to LLM to generate a natural language response. I have tested this application using both GPT4 and Llama2.

Platforms: Langchain,PineCone/Faiss,GPT4/Llama2,Hugging face,Streamlit

Development Language: Python

Role and Responsibilities:

- Writing Python scripts for the given use case
- Testing the most suitable LLM for the above use case
- Designing the user interface using Streamlit

Project: Movie Rental web application POC

Organization: Techment technology Pvt Ltd

Project Description:

Using .Net Core MVC developed a movie rental web application in which admin can add,remove,update movie details and can monitor payment details of rented movies from users.On the other hand users can view,rent,add to cart movies,while renting the movies the users can make payment for which Razorpay payment gateway is provided to them

Platforms: .Net core Mvc,Ext js,Sql Server

Development Language: C#

Role and Responsibilities:

- Admin and User panel functionality and designing
- Admin and User authentication and authorization
- Database architecture design
- Payment gateway integration

Project: Leave management system POC

Organization: Techment technology Pvt Ltd

Project Description:

Using .Net core and Wpf developed a leave management system where organization users can apply for leave selecting reason for leave and the admin(manager,HR) can decline or approve the leaves applied

Platforms: .Net core,wpf,SQL server

Development Language: C#

Role and Responsibilities:

- Admin panel functionality and designing
- Admin Database architecture design

- Admin and User database authentication and authorization

Project: Learning management system POC

Organization: Techment technology Pvt Ltd

Project Description:

Using Typescript TRPC in backend and React Next JS in frontend we have developed a learning management system where there were two separate interfaces for teacher/mentor who can assign tasks to students, monitor their progress and conduct tests where in students can access the courses provided subscribe courses and attend tests for the same

Platforms: NextJS, TRPC, Prisma ORM, Planet Scale Db

Development Language: Typescript

Role and Responsibilities:

- Admin panel functionality and designing
- Admin Database architecture design
- Admin and User database authentication and authorization using Clerk hosted service
- Role based authorization
- Payment gateway integration using Stripe

Project: ARCGIS Pro/Online POC

Organization: Techment technology Pvt Ltd

Project Description:

Using .Net Framework for desktop and react for web developed an application which accesses the ArcGis server to fetch Spatial data. Customized the application so that a user can utilize the application without having a specialization in Gis.

Platforms: .Net, React, ArcGis Pro/Online

Development Language: .Net, Javascript

Role and Responsibilities:

- Integration of ArcGis with React and .Net application
- Studying use of Spatial data

Project: Techment Chatbot

Organization: Techment technology Pvt Ltd

Project Description:

Using Zia skills in Zoho, SalesIQ developed a chatbot for our company's website. The bot was built using a scripting language called Deluge. The bot acts as a virtual assistant on our company's website.

Platforms: ZiaSkills, SalesIQ

Development Language: Deluge

Role and Responsibilities:

- Writing scripts for the bot actions
- Feeding keywords to invoke bots action
- Writing prompts for the bot's response

Educational Qualification

- B.Tech(CSE) from Raipur Institute of Technology Engineering and Entrepreneurship (RITEE), Raipur(C.G)

