SIVA KUMAR MOPURI

Agentic AI Apps | Generative AI Engineering | Data Engineering

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TECHNICAL SKILLS

Languages: Python, C#,java,c++, SQL.
Frameworks: LangChain , langgraph ,Agno, Crew AI, Hugging Face, Scikit-Learn,LLM, GPT,LLAMA,Transformers, NLTK, Sematic Analysis.
Tools: Docker, Kubernetes, Git,GitHub, Jenkins, JIRA.
Version Control Systems: TFS, SVN, GitLab, GitHub,CI/CD Pipeline using Azure DevOps .
Monitoring Tools: Langsmith, Grafana and Splunk.
ML & DL Algorithms: Tensorflow , Keras , Regression, Logistic Regression, Decision Tree, Random Forest, XGBoost, Naive Bayes, K-means,Support Vector Machine (SVM), PCA, K-Nearest Neighbors (KNN).
LLMs : OpenAI,Groq,Gemini AI.
Cloud Platforms: AWS, Azure.
DataBases : Vector DB, FAISS, Chroma DB, Pinecone DB, Lane DB, and SQL Server (RDBMS) ,

EXPERIENCE

Entain-India
March 2022 – Present
Principal Gen AI Engineer
Hyderabad, Telangana

- Designed a Label based workflow for the **betmgm** and **bwin.com** for multiple labels for the new features so that easily adapt product can get the technical documents easily with one click solution.
- Led a cross-functional team in the **development of a conversational AI chatbot,** enhancing customer support and reducing response time by 40%
- **Deployed AI models at scale** using Kubernetes and Docker, ensuring seamless integration with existing cloud infrastructure (AWS, Azure).
- Implemented **documents and selfie verification** to authenticate user identity, enabling automated match evaluation with options for user acceptance or rejection

Tata Consultancy Service Ind Pvt limited
November 2015 – March 2022
Senior Machine Learning Engineer
Hyderabad, Telangana

- Designed and implemented **machine learning models** for predictive analytics, achieving a 25% increase in forecast accuracy.
- Led a team in the development of **NLP solutions** for document classification and information retrieval, significantly improving data processing efficiency
- Collaborated with data engineers to build **robust data pipelines,** ensuring data integrity and streamlined workflows for model training and deployment.
- Provided mentorship and guidance to junior engineers, fostering a collaborative and innovative working environment.

Syntel Ind Pvt Limited
Auguest 2013 – October 2015
Software Engineer
Hyderabad, Telangana

- Developed and maintained enterprise-level software applications, contributing to the company's transition to cloud-based solutions
- Worked closely with cross-functional teams to integrate features into existing software products.
- Managed the deployment and monitoring of applications in production environments, ensuring high availability and performance

EDUCATION

Institute of Aeronautical Engineering - JNTU
June 2008 – June 2011
Master Of Computer Applications
Hyderabad, Telangana

- Course Work: Data Structures, Algorithms, Design Patterns, Design Principles, DBMS, Operating Systems, Computer Networks.
- Proactively expanded technical expertise beyond college curriculum by mastering Web Development, Mobile App Development.

Govt Degree college - SK University
May 2005 – April 2008
Batchler of computer science)
Anantapur, Andra Pradesh

- Participated in multiple hackathons, gaining hands-on experience in problem-solving and collaborative software development.

PROJECTS

Bwin Sports Betting Chatbot   **Python, langchain, langgraph, Pinecone, chromaDB, Langgraph**

- Developed the chatbot for Bwin Sports app for one of Europe's largest gambling platforms, partnering with top football clubs like Real Madrid, Bayern Munich, and Manchester United.
- Designed Pinecone DB , a vector DB to store the vectors into And User info can be captured into ChromaDB for the quick recap what user searched for.
- All the response will be given from a list of PDFs derived from betting domain FAQ's.
- Ensured a seamless user experience by allowing easy navigation and betting within the app, catering to diverse sports enthusiasts.

BetMGM Document Analysis   **Python, ML algortithems, Docker, Kubernetes, Agile, Jira**

- Developed the official BetMGM Document analysis through creating own model and based on the input document its going to classify the document and will send the response.
- Finetune the model by changing the different approaches and by changing the differen classification algorithems on ML.

Document Summarization And Retrieval with RAG: **Python, Langchain, Fast API, LLMs**

- Designed an LLM-powered document retrieval system using Retrieval-Augmented Generation (RAG).Leveraged LangChain's RAG pipeline with Pinecone vector database for efficient search and summarization. Integrated the solution into a FastAPI service, enabling instant text summarization for research and legal documents.

HR Analytics   **Python, ML algorithems,Unit Testing**

- Analyzed HR Data using Machine Learning techniques to predict employee attrition, optimize recruitment processes, and improve overall workforce management.

Photography Application   **Python, FastAPI, Flask**

- A Web application to make photographer life easy which includes features like JWT authentication, User and admin modules based on roles.

AWARDS / EXTRACURRICULAR

- Manager award to implement and architecture of the Chat bot application for the bwin application .
- Service Commitment Award. .
- Special achievement Award for successfully migrated lot of projects to Cloud .
- On the spot Awards for the TCS In House for successfully deployed models.