

# SYED SALEEM

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## BACHELOR OF TECHNOLOGY

**MNR Engineering College**  
Computer Science and Engineering

Sangareddy, India

**Ratnapuri Institute Of Technology**  
Electronics and Communication Engineering

Hathnoora, Sangareddy

## EXPERIENCE

**Innovapth Private Limited**  
*AI/ML Engineer*

Hyderabad, India  
Dec 2023 - Present

- Developed chatbots which use Generative AI (GenAI) and Large Language Models (LLMs) to deliver personalized and context-aware responses, enhancing user engagement and satisfaction.
- Applied NLP techniques using transformer-based models (e.g., BERT, GPT) for natural language understanding and generation, enhancing the chatbot's ability to process and generate contextually accurate responses based on user input and domain-specific language.
- Developed and implemented custom web scraping pipelines using Python libraries (e.g., Scrapy, BeautifulSoup) to gather domain-specific data from websites and APIs, ensuring the chatbot model is continuously fed with high-quality, relevant data to enhance its understanding and response capabilities.
- Implemented a Retrieval-Augmented Generation (RAG) framework to improve the chatbot's response generation by integrating external knowledge sources, thereby enhancing the richness of the interaction.
- Evaluated the RAG framework by assessing retrieval accuracy and response quality, leveraging precision-recall metrics for retrieval and BLEU/ROUGE scores to measure the relevance quality of generated responses.
- Utilized Vector Databases to store and retrieve embeddings efficiently, facilitating quick and accurate similarity searches for improved user query handling.
- Utilized LangChain for advanced conversational capabilities and workflow automation, enhancing the chatbot's ability to manage complex dialogues and tasks.
- Fine-tuned LLMs using domain-specific datasets to optimize the chatbot's performance, ensuring high accuracy and relevance in conversations.
- Integrated Hugging Face Transformers to leverage pre-trained LLMs, streamlining fine-tuning and deployment processes for domain-specific applications, enhancing response quality and model adaptability.
- Implemented Agentic AI to enable autonomous decision-making and dynamic task management, enhancing the chatbot's adaptability in real-time interaction.
- Deployed the chatbot on AWS using Bedrock for scalable model training and inference, ensuring reliable and efficient performance under varying load conditions.
- Developed and deployed scalable RESTful APIs with FastAPI, enabling real-time communication between the chatbot and external systems for data retrieval and model inference.
- Implemented LLMops pipelines using Docker and custom orchestration scripts, streamlining versioning, deployment, and monitoring workflows specifically tailored for large language models (LLMs), ensuring efficient and reliable production performance.
- Coordinated cross-functional efforts to integrate domain-specific knowledge into Generative AI models, ensuring the system met both technical and business requirements.

**Lampex Electronics Private Limited**  
*Software Intern*

Hydrabad , India  
Jun 2023 - Dec -2023

- Collect, clean, and preprocess data from various sources to ensure data accuracy and consistency
- Perform exploratory data analysis (EDA) to identify trends, patterns, and actionable insights.
- Support the creation of data visualizations to communicate findings effectively to stakeholders
- Collaborate with cross-functional teams to understand data requirements and objectives.
- Conduct research and compile datasets for ad-hoc analysis and reporting tasks.

- Learn and apply statistical methods or machine learning techniques to solve business problems under supervision.
- Stay updated on industry trends and best practices in data analytics and visualization.

#### TECHNICAL SKILLS

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Machine Learning / AI:	Generative AI, NLP, Conversational AI, Retrieval-Augmented Generation (RAG), PyTorch,
Misc:	Python, SQL, JavaScript
Databases:	MongoDB, PostgreSQL, MySQL
IDE / Development Tools:	Visual Studio Code, Jupyter Notebook, Git
Version Control CI/CD:	Git, GitHub, Jenkins

#### PROJECTS

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**Ai Assistant using Python, Hugging Face Transformers, NLTK, FastAPI**

An Assistance Chatbot for helping candidates to learn and help them in preparation.