# Gnapika Gude

## Data Scientist

Data Scientist with Proficiency in Natural language processing(NLP) & Machine Learning: Enhancing Linguistic Model Performance & software engineering skills.


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## WORK EXPERIENCE

### Data Scientist

Inviz Ai

*01/2022 - Present* *Bangalore*

*Achievements/Tasks*

- **LLM based Chatbot for TATA cliq E-commerce:** Designed a domain-specific chatbot to handle diverse data formats, including PDFs and CSV, text files, for e-commerce applications.
- Utilized OpenAI and Hugging Face for embeddings, storing them in vector databases like ChromaDB and Weaviate. Integrated Langchain for seamless LLM calls and employed RAG (Retriever-augmented Generator) to enhance Q&A task accuracy.
- Deployed the backend services in AWS cloud EC2 and Fargate services for vector and text context data management and LLM orchestration.
- **Extracting multiple queries by an AI agent:** Developed an AI agent capable of extracting multiple queries from large documents using GPT-4 and Langchain.
- Designed multiple tool and function-calling features to autonomously execute agents for tasks like data extraction, document analysis, and query processing.
- Integrated natural language processing (NLP) techniques to handle document parsing and extract precise answers.
- Leveraged transformer-based models to identify relevant data and provide structured responses for multiple queries.Automated query results posting to Slack for seamless team collaboration.
- **Spell Check Enhancement for Tata Cliq's Search Functionality:** Collaborated with TATA, utilizing BERT, ELMo, word2vec for improved search. Implemented real-time spell correction, reducing errors by 25% and elevating autosuggestion relevancy by 30% for a streamlined user experience.
- Deployed end to end ML workflow from training to inference on Google Vertex AI, by unifying data storage, processing, and model training within a single environment.

### Software Engineer

Ribbon Communications

*2016 - 2019* *Bangalore*

*Achievements/Tasks*

- Analyze and evaluate the performances of SBC's (Session Border Controllers) by implementing VoIP and SIP trunking services.
- Evaluation includes its ability to provide security, session performance, Policy and Call routing, SIP Interoperability,Media Transcoding, DTMF/FAX Interworking and scalability. Implemented python automation framework.

## SKILLS

Generative AI | AI agents/RAG | Langchain, LLM | NLP | Llama | AWS | OpenAI | Transformers | Python | Huggingface | Docker | Pyspark | MySQL,MongoDB | Pandas, Numpy | GCP | ETL

## ACHIEVEMENTS

National Merit Scholarship from Government of India (2012 - 2016)

*Received National merit scholarship for academic excellence.*

Award for excellence - Ribbon Communications(2017)

*Recognition for detecting bugs and fixing them in SPAM tool.*

Spot Award - Ribbon communications (2018)

*Debugging glitches in SBC performance.*

## CERTIFICATES

Completed project on Machine Learning

*https://www.coursera.org/account/accomplishments/certificate/X5445VFC6UDN*

Completed project on Python Data structures

*https://www.coursera.org/account/accomplishments/verify/TX8JLQ54XDLE*

## EDUCATION

B.Tech (Electronics and Communication Engineering) (2012 - 2016)

*Sree Vidyanikethan Engineering College (CGPA - 8.9)*