

# Aryan Sirdesai

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## Summary

- A Data Scientist with 7 months of hands-on experience in Generative AI, Agentic AI, and Natural Language Processing (NLP).
- Expertise in Generative AI, vector databases, and Large Language Model (LLM) frameworks.
- Proficient in Data Cleaning, Pre-processing, Visualization, NLP, Machine Learning, and Prompt Engineering.
- Interested in developing innovative solutions for complex applications.
- Worked on developing AI Chat Bots based on Generative-AI solutions.
- Seeking a role as an AI/ML Intern, AI/ML Developer, or Software Developer to apply my skills in Generative AI, NLP, and machine learning..

## Education

- **B.E. Computer Engineering** [June 2020 – June 2024] | CGPA: 8.43/10
- **Diploma in Computer Science Engineering** [June 2019 – June 2021] | Percentage: 95.29/100

## Technical Skills

|                              |  |
|------------------------------|--|
| <b>Programming Languages</b> | Java, Python3  |
| <b>Generative AI</b>         | Vector store, RAG, Open AI embedding, Large Language Models, Prompt Engineering                                    |
| <b>Machine Learning</b>      | Supervised and Unsupervised learning   |
| <b>NLP</b>                   | Text Preprocessing, Text Representation, Text Classification, Named Entity Recognition, TFIDF, BOW, Word to Vector |
| <b>Deep Learning</b>         | ANN, CNN, RNN, LSTM, Transformers, Transfer Learning   |
| <b>Frameworks</b>            | Keras, Tensorflow, PyTorch, OpenCV, PyTesseract  |

## Work Experience

**Shyena Tech Yarns Pvt. Ltd.** | Data Scientist Intern | July 2024 – Present

- Developed an AI-powered chatbot using a RAG pipeline for efficient query handling.
- Optimized LLMs for better prediction accuracy and performance.
- Worked with Llama-Index, LangChain, HuggingFace, NeMo – Guardrails.
- Integrated with Flask and CORS APIs for seamless frontend interaction.

## Projects

### Multipurpose AI Assistant Chat Bot

- Developed a RAG-based chatbot for efficient query handling and rapid information retrieval.
- Integrated Llama-Index for enhanced vector storage and retrieval.
- Built a Flask API for query processing and interaction with NeMo Guardrails.

### Text-to-SQL – Natural Language Query to SQL Query

- Developed a Text-to-SQL bot to convert natural language queries into SQL commands.
- Enhanced bot accuracy with a fine-tuned language model.
- Implemented validation mechanisms for syntactic and semantic correctness.
- Deployed a Flask API for seamless integration with databases.

## Certifications

- Data Structures and Algorithms using Java
- Java, Java Frameworks, and Spring Boot

## Interests

- Passionate about developing AI applications leveraging LLMs and Generative AI.
- Interested in the latest trends in AI and technology.
- Applying AI skills to diverse activities.