

# SHIVANSWAMYNATHAN .S

## M.SC.DATA SCIENCE

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### SUMMARY

Energetic and enthusiastic individual with a positive attitude, seeking to leverage my skills in data analysis and machine learning to contribute to impactful projects in a dynamic analytics team. Eager to start my professional career and enhance my knowledge and skills in the analytics domain.

### TECHNICAL SKILLS

Machine Learning	LLMs (Large Language Models)	Data Analytics
Python	LangChain	Predictive Modeling
Deep Learning	NLP (Natural Language Processing)	

### PROFESSIONAL EXPERIENCE

#### OMEXON TECHNOLOGIES                      Aug 2024 - Present

- Developed AI-driven data science solutions using LangChain, ML, and Generative AI for NLP applications.
- Collaborated with teams to deploy machine learning models and extract actionable insights from complex datasets.
- Implemented Large Language Models (LLMs) to automate tasks and enhance customer experience.

#### Robert Bosch Engineering and Business Solutions

- Contributed to the development of the Artificial Coder Engine, a tool aimed at automating coding tasks and improving development workflows.
- Assisted in designing, testing, and debugging machine learning models and algorithms to enhance the tool's efficiency.
- Gained hands-on experience in Python, AI/ML frameworks, and software development best practices in an enterprise setting.

#### emTarang TechLabs Pvt. Ltd.

- Designed and implemented an automation model for extracting cricket highlights from raw footage using AI/ML techniques.
- Enhanced viewer experience by providing automated highlight videos to sports channels, optimizing content delivery and viewer engagement.
- Gained practical experience in cloud computing, machine learning models, and video processing automation.

## EDUCATION

### Coimbatore Institute of Technology, Coimbatore

M.Sc. Data Science

CGPA: 8.1/10

2017-2022

- Completed coursework in machine learning, data analytics, and big data technologies with a focus on practical applications.
- Developed hands-on skills in Python, R, SQL, and AI frameworks through academic projects and research work.
- Engaged in projects such as building predictive models, automating data processes,

## PROJECTS

### AI-Powered Data Analysis and Chatbot Integration Platform

- Developed a User Interface for Data Upload using Python (Streamlit) to allow users to upload CSV, Excel, and database files for real-time data analysis.
- Implemented AI/ML models to generate insights and statistical analysis, providing users with predictive analytics and trends based on uploaded datasets.
- Integrated a Chatbot using LLM (Large Language Models) to allow users to interact with the system by asking data-specific queries and receiving context-aware answers in text or visual form.
- Designed dynamic data visualizations by embedding Power BI dashboards, enabling real-time insights and custom reporting from processed data.

### AUTOMATED CRICKET HIGHLIGHTS EXTRACTION

- Developed a deep learning model to automatically generate cricket highlights using audio features from match commentary.
- Extracted and processed audio features from raw commentary to identify key moments in the match.
- Trained the model to classify highlights based on excitement levels and crowd reactions in the audio.
- Deployed the solution on cloud infrastructure, ensuring scalability and real-time processing of sports content.

### Code Summarizer

- Developed a Code Summarization tool designed to generate concise, readable summaries that accurately describe the functionality of a given software code.
- Focused on creating semantically meaningful summaries to improve code readability and maintainability for developers.
- Aimed to streamline the documentation process and support developers in understanding large codebases efficiently.