

Sarvesh PV

Coimbatore, India — MSc Integrated Artificial Intelligence & Machine Learning

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EXECUTIVE SUMMARY

A Machine Learning enthusiast with experience in AI, data analytics, and deep learning. Proficient in building **scalable ML models** and leveraging **Machine Learning** to drive data-driven solutions. Adept at collaborating with cross-functional teams, solving complex business challenges, and continuously advancing technical expertise in emerging AI technologies.

EDUCATION

Coimbatore Institute of Technology

M.Sc. Artificial Intelligence and Machine Learning CGPA: 8.5 (Sem V)

Coimbatore, India

2022 - Present

Sri Chaitanya School

AISSE Biology-Chemistry-Mathematics CGPA: 8.7

Coimbatore, India

April 2019 - March 2022

PROFESSIONAL EXPERIENCE

Team Lead, Relational and Quality Control Division

April 2024 – Present

The Snippet, a platform for staying informed on current events

Coimbatore, India

- Managed coordination across **45+ colleges** and stakeholders, ensuring seamless content operations. Led quality control, reducing inconsistencies by **25%**, and streamlined communication across **14+ states and 4+ countries** to enhance engagement.

PROJECTS

Predicting DNA-Protein Binding Motifs | Python, TensorFlow, Keras, Deep Learning

[GitHub](#)

- Accomplished a Variational Autoencoder (VAE) to generate biologically relevant DNA sequences and a CNN-based classifier for functional property prediction, achieving **94% classification accuracy**.
- Processed **10,000+ DNA sequences** using one-hot encoding and optimized hyperparameters to improve model performance by **15% over baseline**.
- Reduced reconstruction error by **20%** and enriched precision-recall balance using confusion matrices and classification metrics.

Customer Sentiment Analysis Dashboard | Python, Streamlit, NLP, DistilBERT, KeyBERT, Transformers

[GitHub](#)

- Constructed an AI-powered sentiment analysis system processing **50,000+ customer reviews**, achieving **92% sentiment classification accuracy**.
- Implemented NLP models (DistilBERT, KeyBERT) for multilingual sentiment analysis, reducing processing time by **30%** through multi-threading.
- Boosted topic extraction relevance by **25%** using BERTopic and resolved translation inconsistencies across **5+ languages**.

SQL Chatbot for Database Interaction | Python, LangChain, MySQL, Groq API, Streamlit

[GitHub](#)

- Established an AI-driven SQL chatbot handling **100+ database queries daily**, enabling natural language interaction with MySQL.
- Integrated secure session-based chat history, reducing query execution time by **40%** with database indexing.
- Enhanced query parsing accuracy by **20%** through improved prompt engineering and fine-tuning Groq's Llama3 model.

EXPERTISE

Languages: C, Python, R, HTML, CSS

Frameworks: Flask, TensorFlow, Scikit-learn, Tensorflow

Databases: MySQL, MongoDB, PL/SQL

Tools: Power BI, Git, Docker(Basic), Streamlit, LangChain(Basic)

Software Development: Data Pipelines, Model Deployment, API Development, Debugging & Testing

Soft Skills: Communication, Leadership, Problem-Solving, Team Collaboration

INTERESTS

Machine Learning

Data Analytics

Natural Language Processing

AI-driven Automation

Data Engineering

LEADERSHIPS & RESPONSIBILITIES

Founder and Executive Director

Student Developers Cell, CIT

August 2024 – Present

Coimbatore, India

ACHIEVEMENTS & CERTIFICATIONS

Notable Achievements

- Winner** of the GDSC Summer Hackathon 2023, outperforming **50+ teams** in innovative data engineering and analytics.

Publications

- Revolutionizing Genomics with Deep Learning** (*ICETST 2025-1st International Conference on Emerging Trends in Science and Technology, SRCAS, Coimbatore, India*)

Certifications

- Data Analytics with Python** - NPTEL.
- Learning Analytics Tools** - NPTEL.
- Badges in Cloud Computing and Gen AI** - Google Cloud Skill Boost.