

Sherry Thomas

GitHub — Kaggle — LinkedIn — Portfolio
Indian Institute of Technology Madras

Introduction

Highly motivated Data Science student at IIT Madras (BS in Data Science and Applications, expected 2025) with a passion for Large Language Models (LLMs) and Natural Language Processing (NLP). Proven ability to contribute effectively through research, teaching, and open-source projects. Eager to leverage strong technical skills and a background in philosophy to solve real-world problems.

Projects

Indic Parler-TTS

Link: <https://huggingface.co/ai4bharat/indic-parler-tts/>

- Developed multilingual TTS model for 21 languages (20 Indic + English).
- Enabled fine-grained control over speech characteristics via text prompts.
- Curated and cleaned 8,385-hour multilingual speech dataset.
- Contributed to training setup, performance monitoring, and troubleshooting.

Cat Image Classifier using Neural Networks from Scratch

Link: <https://github.com/SherryS997/Cat-Image-Classification-Neural-Network-using-NumPy-and-SciPy>

- Implemented custom neural network in Python with NumPy.
- Independently coded deep learning algorithms, starting from scratch.
- Tech Stack: Python, NumPy, SciPy, PIL

Blog-Lite v2 (Vue3, Python-Flask)

Link: <https://github.com/SherryS997/Blog-Lite-v2>

- Awarded 'Best Project'. Part of course-work.
- Platform for text/image blogs, enabling user interactions with Flask REST API, Celery, Redis.
- Tech Stack: Vue3, Python, Flask, SQLite, Redis, Celery

Machine Learning Algorithms (Quarto, Markdown, LaTeX)

Link: <https://github.com/SherryS997/Machine-Learning-Algorithms>

- Comprehensive resource on ML algorithm foundations.
- Adopted by IIT Madras as course notes.
- Tech Stack: Python, Scikit-Learn, Pandas, TensorFlow

Work Experience

Data Science Intern

AI4Bharat, IIT Madras (February 2024 - Present)

- Contributing to the TTS Lab by cleaning, preparing data, and training models.
- Building open-source text-to-speech (TTS) models for the 22 official languages of India.

ML Research Intern

IIT Madras (Sept 2023-Jan 2024)

- Developing content bridging theory and practice in classical ML.
- Creating high-quality ML notebooks exploring model internals and guiding effective EDA and model building.

Machine Learning Techniques (CS2007) TA

IIT Madras (May-Aug 2023)

- Prepared comprehensive course notes adopted as standard course material.
- Mentored students, conducted sessions on classical ML topics, and created tutorial content.
- Recorded companion sessions, enhancing course accessibility.

Please turn over...

Education

Program	Institution	CGPA	Year
BS in Data Science and Applications	IIT Madras	9.65	2024
BA in Philosophy	Christ University, Bengaluru	9.57	2021

Certifications

Deep Learning Specialization

Completed 5 courses mastering CNNs, RNNs, LSTMs, Transformers, and optimization techniques in neural networks for applications like speech recognition and NLP.

Link: <https://coursera.org/share/6dfedef63e8fbd72284092cb7c5b0da9>

Generative AI with Large Language Models

Acquired learning in LLM lifecycle, training, fine-tuning, and deployment strategies for real-world applications, understanding business implications from industry insights.

Link: <https://coursera.org/share/abd98e71f4b17faa5c391bc2aceff982>

Positions of Responsibility

Senate Member

Christ University, 2019-20

- Actively contributed as a member of the Senate, the highest governing body.
- Participated in crucial meetings addressing important matters.

Student Council Member

Philosophy Department, Christ University, 2020-21

- Helped out in Department Budgeting.
- Organized the Annual Fest and various departmental events throughout the academic year.

Skills

Languages: Python, JavaScript, Java, SQL

Web: HTML, CSS, Vue.js

Tools: TensorFlow, PyTorch, OpenCV, Scikit-learn, Pandas, Flask, Django, Sqlalchemy

NLP: llama.cpp, Langchain, Llama LLM, Mistral LLM, Bloom LLM, Flan-t5