Sherry Thomas || 21f3001449 || GitHub || Kaggle || LinkedIn || Portfolio
Indian Institute of Technology Madras

INTRODUCTION

Currently pursuing a BS in Data Science and Applications at IIT Madras, slated for completion by 2024. Passionate about Large Language Models (LLMs), Natural Language Processing (NLP), and open-source contributions. Committed, quick learner eager to contribute effectively.

EDUCATION

Program	Institution	CGPA	Year
BS in Data Science and Applications	Indian Institute of Technology Madras	9.9	2024
BA in Philosophy	Christ University, Bengaluru	9.57	2021

WORK EXPERIENCE

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.
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.

PROJECTS

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. • Implemented layers, ReLU, Sigmoid, training procedures from scratch. • 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, utilizing Flask Rest API with Celery & Redis. • Tech Stack: Vue3, Python, Flask, SQLite, Redis, Celery
Machine Learning Algorithms	*(Quarto, Markdown, Latex)* Link: https://github.com/SherryS997/Machine-Learning-Algorithms • Building an extensive resource documenting the mathematical foundations of classical ML algorithms, and introductory Deep Learning. • Adopted by IIT Madras as course notes for the Machine Learning Techniques Course • Tech Stack: Python, Scikit-Learn, Pandas, Tensorflow

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.

RELEVANT COURSEWORK

Machine Learning Practice	Machine Learning Techniques	Machine Learning Foundations
Programming, Data Structures and Algorithms	Database Management Systems	Statistics for Data Science I & II
Mathematics for Data Science I & II	Object-Oriented Programming with Java	

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