



EDUCATION			
Program	Institute	% / CGPA	Year
M.Tech. (IMSC)	Indian Institute of Technology, Madras	8.31	2024
B.Ed. (W.B.U.T.T.E.P.A)	Vivekananda College of Education	8.80	2021
M.Sc. (Applied Mathematics)	Vidyasagar University	73.33	2019
B.Sc. (Vidyasagar University)	Raja Narendra Lal Khan Women’s College	68.12	2017
Class XII (W.B.C.H.S.E)	Dakshin Moyna High School (H.S)	77.20	2014
Class X (W.B.B.S.E)	Dakshin Moyna High School (H.S)	69.57	2012
SCHOLASTIC ACHIEVEMENTS			
<ul style="list-style-type: none">Recipient of the bronze medal for obtaining first class in B. Sc. Mathematics Honours 2016.Recipient of the bronze medal for obtaining first class in B. Sc. Mathematics Honours 2017.Qualified GATE 2022 Examination in Mathematics.			
M.TECH THESIS			
Identification of strategies in multiplayer games using Reinforcement Learning (RL) Internship: - Tiger Analytics (July ’23 - May ’24)			
Guide- Prof. Sivaram Ambikasaran, IIT Madras Co-Guide: - Dr. Srivallabha Deevi, Tiger Analytics			
Motivation	<ul style="list-style-type: none">Reinforcement learning is a machine learning model to train agents to play multistep games.		
Work	<ul style="list-style-type: none">Exploring the application of Reinforcement Learning in two-player games like Tic-Tac-Toe and Othello.Created an RL agent that learns to play two-player games by trial and error, taking actions and receiving rewards or penalties depending on whether the action led to a win, loss, or draw, using algorithms such as Q-learning and Deep Q-Networks (DQN).Demonstrated training by comparing win rates between trained and random players.Trained agent used to identify strategies for humans to follow, during the game.		
PROJECTS			
Course Project (MA5770)	Time Series Forecasting using the SARIMA model, Guide: - Dr. Priyanka Shukla (Jan ’23 – May ’23) <ul style="list-style-type: none">Performed prediction of future stock price using historical data, for Apple stocks.Used Python for data preprocessing, feature selection, and hyperparameter tuning.Applying a statistical model (SARIMA) to the training data and evaluating model performance on the test data using the Symmetric Mean Absolute Percentage Error (SMAPE) metric.		
Course Project (MA5755)	Diabetes Prediction Using Machine Learning (Jun ’23 – Aug ’23) <ul style="list-style-type: none">Used the Pima Indian diabetes dataset to accurately predict whether a patient has diabetes or not.Performed exploratory data analysis and visualization.Implemented several Machine learning techniques like Logistic Regression, K-Nearest Neighbors, Support Vector Machine, Random Forest, Decision Tree, and Naive Bayes for the classification.Obtained the highest accuracy of 78.76% with the Support Vector Machine.		
Course Project (MA5013)	Handwritten Digit Recognition using the neural network from scratch (Aug ’23 – Oct ’23) <ul style="list-style-type: none">Used the MNIST dataset from Kaggle to correctly identify digits from a dataset of tens of thousands of handwritten images.Built a simple Two-Layer neural network from scratch using Python.Achieved a 92.45% accuracy in predicting handwritten digits.		
SKILLS			
Programming	Python, C++, R, SQL		
Library	Pandas, Numpy, Matplotlib, Scikit Learn, TensorFlow, Keras		
Software Skills	Jupyter Notebook, R Studio, MS Word, MS PowerPoint, MS Excel		
RELEVANT COURSES			
Courses	Applied Statistics	Object Oriented Programming	Data Analysis and Visualization R/Python/SQL
	Applied Regression	Stochastic Methods in Industry	Data Science: Theory and Practice
	Operations Research	Modelling Workshop	Introduction to Machine Learning
ONLINE COURSES			
AI Club Summer School, IITM 2023	Introduction to Machine Learning, Deep Learning, and Computer Vision		
Coursera 2023	Machine Learning Specialization, Neural Networks and Deep Learning, Natural Language Processing		
EXTRACURRICULAR ACTIVITY			
Alumni Relations Cell (IIT Madras)	Parents’ Day Volunteer 2023 - IBC (Institute Branding Cell)		
Hobbies	Drawing, Running, Solving Puzzles		