EDUCATIONAL			
PROGRAM	**INSTITUTION**	**CGPA/%**	**COMPLETION**
B. Tech in Mechanical Engineering	Indian Institute of Technology Madras	7.90/10	2023
XII (HBSE)	Maa Saraswati Siksha Niketan Sr Sec School, Sakra	89.8 %	2018
X (HBSE)	Government Senior Secondary School, Teontha, Kaithal	86.4 %	2016

COURSEWORKS AND SKILLS			
Coursework	• Introduction to C Programming(cs1100) • multivariable calculus(ma1100) • Series and matrices (ma1020)	• Engineering Mechanics (Am1100) • Strength of materials (me2200) • Principal Of Economics (HS3002)	• Differential Equations(ma2020) • Measurements and Instrumentation (me2400) • Machine Learning Specialisation Washington University (**Coursera**)
Skills and Software	Extra Learnings	• Deep Learning (**Nptel YouTube**) • Probability and statistics for Data Science (**DATA SCIENCE NPTEL**)	
	Programming Languages	• Python • JavaScript • PHP • Java • C • C++.	
	Machine Learning	• A good understanding of concepts of machine learning and algorithms for regression, classification and clustering. • Implemented the basic algorithms like, regression and its variants with L1, L2 regularisation, Logistic Regression, Decision Trees and KNN from scratch with python. • Familiar with feature engineering and data analysing techniques • Conversant with **Scikit-Learn**, **NumPy**, **Matplotlib**, **Pandas**, **TensorFlow** Libraries	
	Deep Learning	• A Good understanding of basic deep learning concepts like, backpropagation, regularization, activation functions, loss functions, convolution neural networks, optimization algorithms, and Long-Short-Term-Memory. • Experienced in building efficient training input pipelines for deep learning models in computer vision, GAN and Time Series Predictions. • A good knowledge about training the deep learning efficiently with techniques like Greedy-Layer-Wise-Pretraining.	

	Web Development	● having a working knowledge of Html, CSS and JavaScript and frontend styling libraries like Bootstrap ● Worked with ReactJs ● Having a good working knowledge of building API's in PHP and Django. ● Having working knowledge of querying language SQL needed for basic projects.
	Others	● Basic knowledge of Git. ● Having a basic knowledge of CI-CI with Jenkins. ● A Fast Learner
EXPERIENCE		
Machine Learning Developer, Go-DataInsights **June- present 2021**		● **GREEN SCORE:** o Built a system with which one can calculate the Greenery Score of an area with longitude, latitude and radius. o Used open street map to fetch the data for the algorithm. ● **FIRE COUNT PREDICTION:** o Analysed NASA's fire data from MODIS satellite. o built a fire count prediction system for a region (a longitude, latitude bounding box) ● **CRYPTO PRICE PREDICTION:** o Built a stock price prediction system. But This is different from general stock price prediction systems because it also takes the effect current news sentiment into consideration and shows its effect on prediction too
Full-Stack Developer , Jivass Tech. May- July 2021		● Worked on ReactJS for frontend and Django for backend, used database was PostgreSQL ● Created Mall Metering React Web Application, with basic features, like authentication system, Dummy Data, Primary Dashboards for Customers, Supervisors (Subadmin type role) and Superadmin ● Created Website till alpha phase, as per client demands
Machine Learning Intern , FTS June- July 2021		● During the Internship Two datasets were given to analyse both datasets had gases and particulate matter but one had hourly frequency and other has daily frequency ● Analysed the day wise data to get an algorithm which can calculate AQI from a gaseous composition ● Built a LSTM based time series prediction algorithm on city by hour data.
Full Stack Developer, Chillitray		● Worked on building token and OTP based authentication systems with sessions. ● Created API's s for sending SMS's, Email for verifications of accounts. ● Built different type of media and other type of API's as per needs
PROJECTS And Competitions		
Text To Image(project)		● The aim is to convert a written text (like "a blue flying bird") in to an image ● NLP is used to extract a feature vector from text description. ● GANs are used to create image from a combination of feature vector and random latent vector
DLHackTrack (Hackathon)		● In This competition I got 2nd rank. ● Here I developed an architecture which can classify images as generated by a GAN or not. ● Developed a convolution architecture with skip connections, interconnection and Depth wise Separable convolutions.

DCGAN (project)	● It is image instance generation project in which a deep learning model generate new images after learning. The Base Architecture used is of famous DCGAN model. ● This is a project in which one can create a custom data of images and train the model. After That similar new image can be generated ● Used combination of convolutions and Up Samples in the forms of block (Conv2dTranspose) to increase size of image
Mall metering	● Used ReactJS and Django stack, with PostgreSQL as database ● Implemented D3 graph for visualisation purposes and Interactive data tables. ● REST APIs were used in backend ● Ideation of flow logic, Database design, Creating wireframes for the same.
Univ-AI Loan Prediction (Hackathon)	● Participated in a machine learning hackathon by Univ-ai. The task was a loan prediction from given set of features ● Here I achieved a best score of 0.869 (roc_auc). ● The Machine learning model architecture had stacking of 6 base models on a neural network.
POSITIONS OF RESPONSIBILITY	
Project Member, SBoard, Electrical club, CFI MAY- present 2020	● Worked in project SBoard as project member in the software module. ● Learned about R-pi, ROS, and Embedded Systems. ● Did research for haptic touch and Ultrasonic feedback. Now building software for the user interface and functionality.
WebOps Team coordinator, Mechanical Engineering Association (MEA) August 2019 – March 2020	● Worked as a coordinator in the web operations team of MEA. ● First, I learned about html, CSS and JavaScript and then created templates for MEA website with a team. Improved user interface.
Public Relations Manager, NSS March 2021 - present	● Here working as a PR manager in PR Team f NSS IIT M ● Learning to interact with peoples of different backgrounds and thinking's
EXTRACURRICULARS AND HOBBIES	
NSS	● In NSS I worked on two projects ● The First project was Project Paws in which we used to feed animals like dogs, cows in an animal dispensary etc. ● Second project was Educational Blog in this project i was supposed to write blogs on
Kabaddi	● I generally play kabaddi with my friends. ● This is a hobby that I have at present.