



EDUCATION AND SCHOLASTICS ACHIEVEMENTS

Program	Institution	%/CGPA	Graduation
BTech + MTech (Dual Degree) in Engineering Design Specialization in Biomedical Engineering	Indian Institute of Technology Madras	7.43	2023
XII (CBSE)	Silver Hills Public School	94%	2017
X (CBSE)	Our Own English High School	9.80	2015

PROFESSIONAL EXPERIENCE AND PROJECTS

QkRes Technologies and Research Web Development Intern Oct '20 – Dec '20	<ul style="list-style-type: none"> Worked as a Web development intern in building a complete e-commerce website for the company.
Logistic Regression	<ul style="list-style-type: none"> As a team of 2, wrote a python program that predicts whether a reactor will operate under given parameters. Without the use of machine learning libraries such as Scikit-learn, we were able to achieve an F1 score of 0.97.
Sudoku Game	<ul style="list-style-type: none"> Created a Sudoku game using pygame in python, that fetches boards from internet using Beautiful Soup. The Sudoku game has options such as 'new', 'reset', 'solve'. The board is solved using the backtracking algorithm.
Blog Website	<ul style="list-style-type: none"> Designed a blog website where people can read posts, making use of React JS, Node, Express, MongoDB and Mongoose. Readers can see all posts, or posts according to category. A user can write, edit or delete their own post.
Sudoku Digit Recognizer	<ul style="list-style-type: none"> Model learns reading digits using deep learning on the MNIST dataset using the TensorFlow library in python. Contours of the board are detected using Opencv library, each small grid is isolated and board digits are recognized using the learned model.
Stroke Prediction	<ul style="list-style-type: none"> In a team of two, predicted whether a person may have stroke and got a maximum accuracy of 0.9814 Compared various models and evaluated their performance based on accuracy and chose the best model.
Snake Game	<ul style="list-style-type: none"> Created a classic snake game using pygame module in python, where the speed of snake increases with score. The game has features including display of highscore, gameover and retry screens and appropriate sounds.
Cricket Bat/Ball Classification	<ul style="list-style-type: none"> Classification of cricket bat and ball with an F1 score of 0.985 achieved using a fastai transfer learning model

RELEVANT COURSEWORK AND SKILLS

Courses	<ul style="list-style-type: none"> Mathematical Foundation of Data Science Digital Signal Processing Medical Image Analysis* 	<ul style="list-style-type: none"> Data Structures and Algorithms for Biology* Human Factors in Design (L&P) Principles of Economics
Course Labs	<ul style="list-style-type: none"> Analog and Digital Systems Lab Physics of Measurement Lab Control Systems Lab 	<ul style="list-style-type: none"> Geometric Modelling and CAD Lab Functional and Conceptual Design Lab
Web Development	HTML5 and CSS, JavaScript(React, Node.js, Express)	
Data Science	Python, Data Visualisation(Python), TensorFlow Library, Keras, PyTorch, Image Processing(OpenCV), Scikit-learn	
Software/Languages	Fusion 360, Illustrator, MS Office, MATLAB, C, C++	

POSITIONS OF RESPONSIBILITIES

Director, Tensors 2020-Present	<ul style="list-style-type: none"> Founder and Director of Tensors, a crowd funded-social projects incubator NGO to use technology for societal benefit. Leading a three-tier team of 4 executives and 30 coordinators in Public Relations, Media and Design teams. Raised 2.58 Lacs through a crowd funding Offline JEE Mock Test event with 22 Coaching institutes and 1800 students. Launched an Online Consulting Program for JEE Aspirants to connect with IITians to clear doubts regarding branch selection.
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CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES

<ul style="list-style-type: none"> NSS Volunteer under 'Teach Your Neighbour', taught mathematics to students of classes 7 & 8 Came Second in district-level for One-Act Play in CBSE Sahodaya(2016) in Malabar Region Member of Alakananda Hostel basketball team and Engineering Design Department basketball team. Came Second in Alakananda Intra hostel Badminton Tournament. Became First in Mathematics Common Exam for class V conducted by Our Own English High School, Sharjah participated by over 250 students.
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