Pursuing Honors in Computer Science Engineering; Passionate about ML, RL, DL & D	Oata Science
Scholastic Achievements	
 Bagged Gold Medal in Bosch's Route Optimization challenge at the 8th Inter IIT Tech Secured 2nd position in Capture the flag Cyber security challenge at the 8th Inter IIT Tech Secured AIR 340 in IIT-JEE Advanced AIR 176 in JEE Main Paper-I AIR 90 in JEE M Amongst Top 300 students in country qualified for INPhO (for two straight years) and IN Achieved AIR 173 in KVPY Fellowship by IISc Bangalore Recipient of NTSE Scholarship Secured AIR 12 in 43rd National Mathematics Olympiad by AMTI State Rank 4 in 41st 	Fech Meet 2019 Iain Paper-II 2016 IMO 2015,14 by NCERT 2014,12
Internships & Research Experience	
 Amazon Development Centre India Pvt. Ltd. Auto Trouble Ticket Manager Designed runtime compilation module using Java Compiler API to implement dynami Auto suggested the resolution of trouble ticket to perform the suggested resolution using Java Developed Generic Framework to plug-in their own models for information retrieval 	
OYO - Oravel Stays Pvt. Ltd. Price Elasticity estimation	May - July 2018
 Designed a prediction model in R that predicts the likelihood for achieving certain profit from and gives the optimized path of price movement using probability-based analysis Implemented density-based clustering using HDBSCAN density cluster model to remove 	
Quantum Gate Optimization R&D project	July - November 2019
 Implemented Subspace Selective Self-Adaptive Differential Evolution (SUSSADE) technological advantages of GrAPE with Push-Pull optimization and RL approarm Deep-Deterministic Policy gradient methods and evolutionary RL for improving existing between the project. 	nique ches like Q-learning ,
Modular Quantum Computer Design Master's Thesis Project	Ongoing
• Implementing a modular RL framework for determining the optimal pulse sequence for any preparation using Deep RL through DQN, DDPG, Trust Region Policy Optimization and A	
Interactive Image Segmentation Bachelor's Thesis Project	Ongoing
 Applying data augmentation strategies on medical images using Generative Adversarial Netv Implementing interactive image segmentation in multi-tissue histopathology using HoVer-net 	` ,
Academic Projects	
 Gomoku RL playing agent Fundamentals of Intelligent agents Created Gomuku playing AI agents using Monte Carlo Tree Search (MCTS) algorithm Implemented efficient guided search using various heuristics to create different learning AI shaping and setting up intelligent priors and utilized multi-threading to carryout rollouts 	agents using reward
 Depth Map Prediction From Single Image Computer Vision Built two-stack CNN-Residual Network model to estimate depth map from a single RGB im Implemented transfer learning using pretrained ResNet-50 network to enhance the per 	_
Compiler for C-like language Implementation of Programming Languages • Developed a compiler and evaluator for a subset of C supporting functions, scope levels and • Utilized Lex for tokenizing, Yacc for parsing and constructed AST to generate MIPS a	Spring 2019 control sequences
 Fake News Detection by Crowdsourcing Database and Information Systems Developed a web and android App for crowdsourcing the verification of spurious news articles Implemented routing algorithms to distribute tasks among volunteers based on domain specific 	
Features of XV6 Operating Systems • Examined xv6 source code and implemented process scheduling algorithms like round robin • Implemented Memory management techniques like lazy page allocation and applications of the control of	
Positions of Responsibility	
 Department General Secretary CSE Department, IIT Bombay Department Academic Mentor CSE Department, IIT Bombay 	April 2019 - July 2020 June 2020 - Present

 $August\ 2020\ \hbox{-}\ Present$

 $April - June\ 2020$

• Teaching Assistant | Programming Lab, Prof. Sai Vinjanampathy

- Mentor | Quantum Computing, Computer Vision : Maths and Physics Club