Ajinkya K || CH19B058 Indian Institute of Technology Madras



	<u> </u>	EDUCATION			
Program		Institution %/CGPA Year			
B.Tech in Chemical Engineering		Indian Institute of Tec		8.56	2023
XII (HSC)		Pace Junior Science (73.7	2019
·				93.4	000 000 00 of 00
X (SSC)		Yashodham High School, Mumbai 93.4 2017 SCHOLASTIC ACHIEVEMENTS			2017
M ::	: A4TOF /A4				2015
		ashtra Talent Search Examination) conducted at State Level .			2015
• Cleared Dr. Homi Bhabha Balvaidnyanik competition organized by Mumbai Science Teachers' Organization . 2015					
	N GED# /	WORK EXPERIENC		I CYAY	,
Research Internship,	Non-CFD* simulation of natural convection based Autothermal Pyrolysis of Wood				
Prof. Abhijeet &	Simulated flow of fluid governed by Pressure Variations using no-slip condition in a pipe Evamined Research Papers to visualize and appropriate the instant of Oxidative Purelysis.				
Renganathan	 Examined Research Papers to visualize and apprehend the ins and outs of Oxidative Pyrolysis Aimed at performing Non-CFD analysis of Velocity and Temperature Profiles in the chamber 				
Jun '21-Present	 Almed at performing Non-CFD analysis of Velocity and Temperature Profiles in the chamber Analyzing and Identifying suitable Mechanisms for Pyrolysis along with other Project Associates 				
	Worked on Software to provide automated backend Solutions				
Mage Feb '22-Apr '22					
	 Created a templatized library of MongoDB GRPC service and MongoDB configuration generator Created pipelines for building application code along with YAML file which validates the code 				
	Reduced the struggle of writing code to create and manage backend service using a frontend				
PROJECTS & COMPETITIONS					
Indy Autonomous Autonomous Vehicle Building Team, working on the Mechanical Chassis of Cart & Bolt					
Challenge, 2020 &	• Enhanced the steering system by proposing the usage of Drive-by-Wire for steering of the cart				
	Represented IITM in IAC and contributed heavily towards the vehicle dynamics of INDY car				
IGVC* 2020,	CAD modeled various steering systems & carried out stress analysis on the rack and pinion gear				
Abhiyaan*	• Designing and Developing an autonomous bot aimed at representing India in IGVC '20 and '21				
Spam Classifier, NLP	Spam or Ham classification of messages using nltk and Sklearn libraries.				
	Applied an SVM model using Sklearn to classify messages as Spam or Ham correctly				
	• Integrated the use of nltk with Sklearn to extract an extensive sequence of words effectively				
	• Achieved an accuracy of 98.35 % & an f1 score of 0.99 for ham and 0.93 for spam classification				
Face Recognition,	• Employed the usage of cv2 & face-recognition library to identify the person in the image quickly • Applied a Deep-Learning model using OpenCV to segment the face in an image with background				
OpenCV ◆ Applied a Deep-Learning model using OpenCV to segment the face in an image with background COURSEWORK & SKILLS					
Mathematics	Drobability St	atistics and Stochastic Process	Differential Equations	Linear Al	gobra
ML/DL		al Foundations of Data Science	Machine Learn		
Others		& Analysis of Algorithms	Principles of		5
Skills			·		CV Sklearn
Skills Languages & Softwares: Python, C/C++, Matlab Python Libraries: Numpy, Pandas, OpenCV, Sklearn POSITIONS OF RESPONSIBILITY					
• Influenced a team of 7 members to conduct Financial events benefiting 1.2k+ students					
Students' Head	Conducted the First ever Finance Fest of IITM Octo-Bear-Bulletin successfully				
Finance Club	Analyzed the working of initiatives and improved the same to deliver excellence				
Jun '21-Present	Spearheaded the initiatives for excellence and provided financial expertise to Managers				
	•	EXTRA-CURRICULA	R		
Moutiel Aute	• Red-1 belt in Taekwondo; Won Gold Medals in Inter-School Sparring Competitions				
Martial Arts	Meritorious Performance in the competition conducted by District Sports Office				
Cultural	• A Music Enthusiast and a Guitar Player for the past six years; Sangeet Subodh Certificate in Guitar				
Sports	Outstanding Performance in Swimming Competitions with a record of 26.8s in 50m				
-	Ranked among the Best 5 in Table Tennis Competition conducted at School Level				
Social Initiatives	Mentored a board Aspirant to upgrade her Academic status from 2nd to 1st No law to any different Alberta Library and Characteristics and Characteristics and Characteristics and Characteristics.				
Volunteering	Volunteered for Publicity and Hospitality team in ChES* organized ChemPlus 2020 Usbared 8. Assisted participants for a greath aversioned during the competition.				
Ushered & Assisted participants for a smooth experience during the competition					