



ATULYA DEEP, RA2011047010024
 Course : **B.Tech**, Artificial Intelligence, 2024
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ACADEMIC DETAILS

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS X	PODAR INTERNATIONAL	CBSE	9.2 CGPA	2016
CLASS XII in SCIENCE	DAV	CBSE	85.2 %	2019
B.Tech	SRM Institute of Science and Technology - Kattankulathur Campus		9.41 CGPA	2024

Subjects / Electives	Reinforcement learning , Neural Networks, Deep learning , Machine learning, Database management system, Analysis and design of Algorithm, Web development
Technical Proficiency	C Programming, OpenCV, Keras, HTML + CSS, Tensorflow, Analysis and Design of Algorithms, Neural Networks, Machine Learning, CNN, Python3, Data Structures

SUMMER INTERNSHIP / WORK EXPERIENCE

Research Intern, Indian Institute Of Technology Patna	Oct 2022 - Jan 2023
I researched and implemented various Neural Network model with contrastive learning and performed comparative study between the latest techniques and custom model. I also co-authored a research paper "Tabular Entity Relationship Establishment using CLF-RCNN with TERED" for IJCNN Conference 2023 held at Gold Coast, Australia.	
Intern, SHPC TECHNOLOGIES PRIVATE LIMITED	Jun 2021 - Aug 2021
Worked as intern on Web Dev part of the company as a full stack developer	
-SQLdatabase	
-HTML/CSS	
-JavaScript	
-NodeJS	

PROJECTS

Personal Portfolio - Web Development	May 2023 - Jun 2023
It is built with HTML, JavaScript and CSS, and it features a clean and responsive design. The website showcases my projects, experiences, and skills, making it easy for visitors to learn more about my work. I hope you enjoy checking out my portfolio! Site	
Hardware Implementation Reinforcement Learning - Reinforcement Learning	Mar 2023 - May 2023
Utilized reinforcement learning (RL) algorithms to develop hardware implementations of various projects, including a navigation robot, and tic-tac-toe-playing Cobot using Ned Niryo (Robotic Arm)	
Traffic sign recognition system - Computer Vision	Sep 2022 - Nov 2022
Developed a Traffic Sign Recognition System using Machine Learning techniques to recognize and classify road signs for road safety. The system detects and compensates for driver inattention or possible misinterpretation of road signs using visual traits such as shape, color, and pictogram. The project aimed to make driving safer and easier by enabling vehicles to understand road signs even in harsh environments, and to assist people with visual impairments or color blindness. Repository	
Neuro-Genetic-disorder-prediction - Machine Learning	Sep 2022 - Nov 2022
Alzheimer's and Parkinson's disease are the most common forms of dementia that degenerate neurons in the brain cells. This paper targets a comparative study on the performance of machine learning classifier and Neural Network techniques in neuro-degenerative data. The Neural Network algorithms gives classification accuracy ~92% with One hot Encoding Method. Repository	
Coastrack - DRDO	Jun 2022 - Present
<ul style="list-style-type: none"> Coastal security and surveillance The project is incubated under SIIEC (SRM Innovation Incubation and. Entrepreneurship Centre) 	
Smart Attendance System (FACIAL RECOGNITION) - Computer Vision	May 2022 - Jun 2022
A face recognition attendance system automatically identifies and confirms a person and records attendance based on their face detection. Compared to existing system traditional attendance marking system, this system reduces the workload of people. This proposed system is implemented with 4 phases such as Image Capturing, Segmentation of group image and Face Detection, Face comparison and Recognition, Updating of Attendance in database. Repository	
Furniture Detection - Computer Vision	Apr 2022 - Jun 2022
Computer vision is a rapidly growing field in the technology and computer science world. An object detection system consists of recognizing, classifying, and localizing, not only one piece of furniture in an image but every referenced piece of the furniture mentioned. One of the most popular algorithms to date for real-time object detection is YOLO (You Only Look Once). The great thing about this Deep Neural Network is that it is very easy to retrain the network on your own custom dataset. In this project, we have made a custom dataset consisting of 6 classes of furniture . Respository	

CERTIFICATIONS		
CERTIFICATION	CERTIFYING AUTHORITY	DESCRIPTION
SQL for Data Science	Coursera	
Natural Language Processing in TensorFlow	Coursera	
Data Science Methodology	IBM	
AWS Academy Cloud Foundations	AWS	
AWS Academy Machine Learning	AWS	
Database management system	NPTEL	
Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning	Coursera	
Convolutional Neural Networks in TensorFlow	Coursera	

POSITION OF RESPONSIBILITY		
Domain Lead - AI ROBO LAB		Mar 2023 - Present
A lab setup for integration of hardware and software to built custom robots and products		
Leader - Coastrack		Jun 2022 - Present
Team lead for a SIIEC funded project about costal surveillance		

AWARDS AND RECOGNITIONS		

COMPETITIONS		
KAVACH 2023 Cyber security Hackathon		Apr, 2023
Designed and developed a technological solution based on live CCTV feeds, that can automatically detect incidents related to street crime, violence, burglary, theft, infiltration, unauthorized access etc. and generate alerts to the nearest Police Station. The solution should also be able to generate a report and maintain a database that includes the nature of incident/crime, location, time, level of alert (i.e., low, medium, high risk alert) etc.		
CINTEL's Next Gen AI Ideathon		Oct, 2022
Designed an effective and cost efficient AGV (autonomous guided vehicle) for warehouses with cloud based integration and hardware upgrades for smoother and faster motion		
IDEX DRDO HACKATHON		Jul, 2022
DRDO HACKATHON GOT SELECTED AND FUNDED BY SIIEC(SRM Innovation Incubation and. Entrepreneurship Centre)		

CONFERENCES AND WORKSHOPS		
IJCNN 2023		
Organized by: IEEE Date: Jun 2023		
IJCNN is the premier international conference in the area of neural networks theory, analysis and applications held Gold Coast Convention and Exhibition Centre Queensland, Australia. Here I presented my research paper "Find the Table : A Contrastive Learning-based Approach with Faster RCNN for Establishing Tabular Entity Relationships"		
Jetson Nano Workshop		
Organized by: Dep of CINTEL Date: Jul 2022		
Jetson Nano kit - Handson workshop		
<ul style="list-style-type: none"> ◦ Worked with Yolo V5 library for object detection ◦ Furniture detection model ◦ And Deployment of the model 		

EXTRA CURRICULAR ACTIVITIES		
Cooking		
Badminton		
Represented Nagpur at U-17 Maharashtra state championship		

PERSONAL DETAILS	
Date of birth: 06 December 2001	Father's name: Girish Chandra Prasad
Permanent address: D3 lakhan residency RPS, patna, patna, Bihar, PIN - 801503	Languages known: Hindi, English
Permanent contact number: 9816622382	Nationality: INDIAN

