



ANWESHA DE

Course : B.E. (Hons.), Electronics & Instrumentation, 2023

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CGPA : 8.24



ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	SCIENCE	DAV MODEL SCHOOL DURGAPUR BURDWAN WB	CBSE	88.33 %	2018
CLASS X		St. Xaviers School, Durgapur	ICSE	94.5 %	2016

Subjects / Electives	Computer Programming in C
Technical Proficiency	MATLAB, C Programming, Python3, LTSpice, Xilinx ISE, Tensorflow

SUMMER INTERNSHIP / WORK EXPERIENCE

Amazon ML Summer School, Amazon India

Jul 2021 - Jul 2021

Was shortlisted for Amazon ML summer School where ML topics like Supervised Learning, dimensionality reduction, Probabilistic Graphical model from among the top 20 institutes of India.

Summer Intern, MILITARY COLLEGE OF ELECTRONICS AND MECHANICAL ENGINEERING, Secunderabad

May 2021 - Present

Working on Soldier health monitoring system using Body Sensor Networks(BSN) and Arduino Uno . The algorithm developed should take into account the age, gender, heart rate, Spo2, temperature and position of the person and return whether there is a critical threat to the health or not .

PROJECTS

Mass mailing encrypted PDF - GUI, Database basics

Jun 2021 - Present

This script uses a tkinter gui . It encrypts a pdf with the date of birth of the receiver (by default) and sends it to the receiver. A sqlite3 database stores the information of the users (name, DOB, Email) . It is completely customizable.

Additional Features will be added .

link : <https://github.com/19-ade/Mass-mailing-encrypted-data>

Applying Reinforcement Learning Algorithms on gym environment - Machine Learning

Apr 2021 - May 2021

Link: https://github.com/19-ade/RL_dino_try

Using standard Gym environments I have used various algorithms like Q table and Deep Q Network to teach the agent in solving the environments. Some Examples include:

- Highway-env – The main task in this environment is for the agent is to navigate a car in traffic by slowing down, increasing speed or changing lanes
- MountainCar-v0 and MountainCarContinuous-v0 – The task was to carry the vehicle up a mountain in an under-powered car. The Agent had to learn to move the car back and forth to develop momentum.
- CartPole-v0 – The agent had to learn to make minute changes in position in the cart which in turn balances a rod and keeps it upright.

Using Reinforcement Learning to train AI to play Google Chrome Dinosaurs Game - Machine Learning

Mar 2021 - Apr 2021

- Link : <https://github.com/19-ade/Reinforcement-Learning-projects-on-predefined-gym-environments>
- The Screenshot of the game environment was taken and the pixel value was optimized using OpenCV library in Python.
- A Deep Q Network algorithm was used to train the agent
- A Convolutional Neural Network was used to analyze the pixel data
- A Custom Gym environment was created to access the game on Google chrome and manipulate it.

POSITION OF RESPONSIBILITY

Secretary - Rotaract Club of Bits Pilani Hyderabad

Jul 2021 - Present

CERTIFICATIONS

CERTIFICATION	CERTIFYING AUTHORITY	DESCRIPTION
Applied Machine Learning in Python	Coursera	
Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning	Coursera	
Machine Learning	Coursera	
Python Data Structures	Coursera	
LaTeX101x: LaTeX for Students, Engineers, and Scientists	edX	

COMPETITIONS

Hackathon-1 | Geoffrey Hinton Fellowship

Mar, 2021

Univ.Ai held a data science scholarship hackathon . I got a AIR- 350 and a rank 3 in my college.	
CONFERENCES AND WORKSHOPS	
Leadership Training Conclave Organized by: Rotary Youth Leadership Awards - Rotary Club of Hyderabad Deccan Date: Jun 2021	
PUBLICATIONS	
The intuition behind Reinforcement Learning A Hitchhiker's Guide to Sentiment Analysis using Naive-Bayes Classifier	
Journal name: Towards Data Science Publication date: May 27, 2021 Journal name: Towards Data Science Publication date: May 14, 2021	
VOLUNTEER EXPERIENCE	
CRUX - Role: Machine learning member Cause: Science and Technology Rotaract club of Bits Pilani, Hyderabad Campus - Role: Secretary Cause: Social Services We collaborated with REAP Benefit on water waste analysis and solutions. Phoenix Association - Role: Ed-Board Member Cause: Science and Technology As a part of Phoenix , the association for Electrical and Electronics Students, I contributed to its annual magazine and wrote the cover story. I was part of the organizing body for our technical fest , ATMOS.	
Mar 2021 - Present Sep 2020 - Present Sep 2019 - Present	
LANGUAGES KNOWN	
English, Hindi, Bengali	