EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2023	B.TECH	IIT Kharagpur	8.86 / 10
2019	AISSCE	CBSE	93.6%
2017	AISSE	CBSE	10 / 10

PROJECTS

Sum of Palindromes
- **Implemented a research paper** on expressing every positive number as a sum of atmost 3 palindromes in any base >5 by Javier Cilleruelo, Florian Luca and Lewis Baxter.
- Created a **web interface** with **Flask** as backend and **AJAX** in frontend to send requests.
- Wrote tests to validate the results and compare the efficiency of program as compared to brute force algorithm.

Resume Builder
- Created a website to **build** and **download resume in pdf format** using HTML, CSS and Javascript and hosted it as a github page.
- Implemented features like adding and deleting bullet points, **reordering sections** etc.

Ask Me Now
- Created a **quizzing website** using **PHP** and successfully hosted it on 000webhost.
- Implemented features like generating **random sets of questions**, paginated leaderboard, displaying password strength etc.

Command line Pokemon
- Created a terminal based pokemon game using **python**.
- Implemented features like **saving and loading game**; battling gym leaders, levelling and evolving pokemons, learning new attacks etc.

SKILLS AND EXPERTISE

Programming Languages: Python, C, C++, Javascript, PHP
Web Development: HTML, CSS, Bootstrap, Jquery, AJAX, Flask
Others: MySQL, Git, pandas, matplotlib

CERTIFICATIONS

Linear Regression with Numpy and Python (Coursera Guided Project)
- Implemented gradient descent algorithm from scratch and created a linear regression model.
- Visualized the data using matplotlib library.

Neural Networks and Deep Learning (DeepLearning.AI)
- Learnt the maths behind neural networks, vectorization, back propagation and activation functions.

Improving Deep Neural Networks (DeepLearning.AI)
- Learnt how to improve neural network's efficiency with help of initialization, L2 and dropout regularization, batch normalization, adam optimization etc.

Convolutional Neural Networks (DeepLearning.AI)
- Learnt to build convolutional neural networks for object detection and recognition. Also learnt about neural style transfer.

EXTRA CURRICULAR ACTIVITIES

National Service Scheme (NSS):
- During online semester, created a python script to **read and translate excel file** from one language to another using **google translate API**.

Programming events:
- Secured **Second place** among the 148 participating teams in **Open IIT Coding Hackathon 2020-21** organized by Technology Students Gymkhana, IIT Kharagpur.
- Contributed to **7 open source repositories** during the **hacktoberfest 2020** event organized by Digital Ocean.