

2017

SAHIL BAIRAGI | 19CH10040

CHEMICAL ENGG. (B.Tech 4Y)



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

CBSE

PROJECTS

Sum of Palindromes | Self-Project

AISSF

[Sep'20 - Dec'20]

10 / 10

- •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 | Self-Project

[Aug'20 - Aug'20]

- •Created a website to **build** and **download resume** 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 | Self-Project

[June'20 - July'20]

- •Created a quizzing website using PHP and successfully hosted it on 000webhost
- Front end was created using HTML, CSS and Javascript with MySQL database to store data
- •Implemented features like generating random sets of questions, paginated leaderboard, displaying password strength etc

Command Line Pokemon | Self-Project

[Aug'20 - Sep'20]

- •Created a terminal game using **python** based on pokemon and compressed code into an executable file
- •Used **Pickle** module of python to store the objects simulating the save and load game feature
- Implemented other features like dueling pokemons and gym leaders, evolving and learning new attacks

AWARDS AND ACHIEVEMENTS

- Secured Second place among the 188 participating teams in Open IIT Coding Hackathon 2020-21 organized by Technology Students Gymkhana, IIT Kharagpur
- •Contributed to 7 Opensource repositories during Hacktoberfest 2020 event organized by Digital Ocean
- •Attained a maximum Codechef rating of 1993 Top 2% among all programmers on codechef

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.Al

•Learnt the maths behind neural networks, vectorization, back propagation and activation functions

Improving Deep Neural Networks | DeepLearning.Al

•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.Al

Learnt convolutional neural networks for object detection & recognition and neural style transfer

SKILLS AND EXPERTISE

Programming: Fluent in Python, C, C++, Javascript, HTML5, CSS3, Bash

Familiar with PHP, Flask, React, AJAX, MySQL

ML toolkits: Basics of Keras, Scikit learn, Tensorflow, NumPy, Pandas, Matplotlib

Softwares/Tools: Git, Jupyter Notebook, Vim

EXTRA CURRICULAR ACTIVITIES

National Service Scheme (NSS):

- Conducted surveys along with team and constantly worked to improve the life of villagers
- Created a python script to read and translate excel file from one language to another using google translate API