Deepshikha Rathore

Jodhpur, Rajasthan

Education

Sardar Vallabhbhai National Institute of Technology

Aug. 2019 - Present

Master of Science in Mathematics

Surat, Gujarat

Relevant Coursework

• Data Structures

• Data Science

• Artificial Intelligence

• Mathematical Modelling

• Machine Learning

• NLP

• Probability & Statistics

• Computer Networks

Problem Solving

HackerRank: 5 star
LeetCode: 1605 Rating
Certificate: Problem Solving

Experience

Svnit Surat May 2022 – July 2022

Research Intern under Dr. Raj Kamal Maurya | Report

Surat

• Study On Exploratory Data Analysis and Regression Techniques of Machine Learning

• Designed and developed the website using HTML, CSS which predicts Housing Prices in Indian Metropolitan Areas

• Worked on Decision Trees, Random Forest Tree, and Extreme Gradient Boosting Regression Method

Projects

Data Extraction and NLP Task

May. 2023 - June 2023

• The objective is to extract textual data articles from the given URL and perform text analysis to compute NLP variables.

• Drive sentimental opinion, sentiment scores, readability, passive words, personal pronouns etc.

Weather App | HTML, CSS, JavaScript, API | Website

July 2023

• Tracks the user's location through HTML Geolocation API.

• Use API to access weather data to create a forecast, including temperature, humidity, clouds, and wind speed.

Sorting Algorithm Visualizer | HTML, CSS, JavaScript | Website

May 2023

• Created a dynamic web application that visually demonstrates various sorting algorithms.

• Sorting Algorithms used for visualization are insertion, selection, bubble, merge, and quick.

Movie Recommendation System | Python, Jupyter Notebook | Report

Dec. 2022

• A recommendation system that recommends movies to watch based on movies entered by the user using machine learning techniques.

• Use countvectorizer to convert data of each movie into a vector and then use cosine similarity for comparison.

Numerical and Analytical Study on Vibrational Model | MATLAB, LaTeX | Report

Jan 2022 - May 2022

- Study two analytical methods Adomian decomposition and Homotopy Perturbation method and a numerical method Adams method
- Solve linear and non-linear initial value problems of ODE using Adomian decomposition, Homotopy Perturbation and Adams method
- Compare errors by find approximate solutions obtained from ADM, Adams and HP methods of vibration model

Technical Skills

Languages: Python, C++, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Jupyter Notebook

Certificate: SQL

Other

• Rank 3 in the Department of Mathematics

- Selected for the KHO-KHO Inter NIT Tournament at NIT Rourkela, Orissa.
- Achieved Jul LeetCoding Challenge and Aug LeetCoding Challenge Badge.
- Article published in AMaThing 4.0 on "How did the Konsigsberg Bridge problem Change Mathematics?"