SHASHANK SHANDILYA

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Skills Summary

- Proficient in programming using C, C++, Python and Java.
- Experienced in developing applications using HTML5, CSS, JavaScript, React, Flask and MySQL.
- Basic understanding of Data Mining techniques such as data classification and categorization using different methods.
- Experienced in developing software using Object Oriented Programming (OOP) and SQL.
- Basic understanding of software management services such as git and GitHub.

Education

Undergraduate (UG) / 2020-2024

The National Institute of Engineering (CGPA – 7.8)

Pre-University (PU) / 2018-2020

Base PU college (81.1%)

Personal Projects

Zoo Management System (Jun 2022 - Nov 2022):

- Designed and implemented a web application that converts the physical functions of a zoo to a digital version.
- Designed all the pages including the landing page using prebuilt as well as custom components.
- Constructed an ER diagram to connect all the required functionalities of the product.
- Created a database and wrote queries that inserted, deleted and fetched data from the database.
- Wrote code to host and connect the webpages and the database.
- **Tools used:** HTML, CSS, jQuery, Flask, MySQL, SQL and bootstrap.

Ant Colony Optimisation on SVM and K-NN (Jan 2023 - May 2023):

- This is a simulation that shows the efficiency obtained as a result of applying ACO on classification algorithms SVM and K- NN.
- Fetched a dataset from Kaggle on which ACO had already been applied on and the expected results were stored by running a virtual simulator.
- Applied both SVM and K-NN algorithms on this dataset to train this machine learning model.
- The results obtained were then compared with the results obtained when SVM and K-NN algorithms were applied to a dataset that did not have ACO applied to it.
- These results were represented by generating a graph to both results which showed the increase in efficiency of both algorithms.
- **Tools used:** Python, matplotlib, sklearn, pandas and NumPy.

Extracting Significant Information from Documents using LLMs (Dec 2023 - Present) :

- This application categorises significant parts of a document into different sections with the help of LLMs.
- Developed a system design that comprised all the functionality of the application.
- Cleaned dataset manually, divided it into paragraphs of text.
- Obtained vectors generated after feeding the paragraphs to Universal Sentence Encoder.
- Applied Kmeans on the obtained vectors to get similar clusters.
- Applied rule based classification to obtain the relevant information from relevant clusters.
- **Tools used:** Python(Pandas, NumPy, Tensorflow, Universal Sentence Encoder(LLM), scikit learn, Regex, docx).

Hobbies and Intrests: Wildlife Photography, Cycling, Badminton, Gym, Entrepreneurship, Social Media Marketing, Trading.