ASHPREET KAUR

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EDUCATION

Bachelor of Technology in Computer Science & Engineering 2020 - 2024

Guru Gobind Singh Indraprastha University CGPA – 9.32 (till 6th semester)

TECHNICAL SKILLS

- **Programming Languages –**, Python, JavaScript, SQL, HTML5, CSS3, C, Java
- **Tools & Technologies –** React, Node, Express, Rest API, MongoDB, Bootstrap, Git, MySQL, SaSS, Tailwind CSS, vite, material UI, next.js, React native, vue, TensorFlow, Karas, Scikit-Learn, NumPy, Pandas
- **Others –** MERN- Web Development, Data structures and Algorithms (C++), Object-oriented programming, Debugging, Deep Learning, Machine Learning, Exploratory Data Analysis, Bert, Natural Language Processing, Semantic UI, GPT-3

WORK EXPERIENCE

MHL FORMULATIONS May 2023 – June 2023

Web Developer Intern

- Developed a card view to display the Visual Aids of all products.
- Designed and implemented the user interface using HTML, used CSS to make the user interface better and guarantee a contemporary, eye-catching design and JS to provide dynamism to the website.

PROJECTS & PUBLICATIONS

AI ContentCondensor August 2023

- Developed an AI-based web application focused on text summarization by leveraging the OpenAI GPT-4 API through Rapid API.
- Designed and implemented the user interface using React, utilized Tailwind CSS to enhance the user interface and ensure a modern and visually appealing design.

Enhancing Topic Prediction Using Machine Learning Techniques and ConceptNet-based Cosine Similarity (in review at SCI Journal) July 2023

- Used NLTK to improve the quality of the data and prepare it for further analysis, and used ConceptNet's deep architecture to calculate synonyms. a dataset was created by calculating the cosine similarity between texts and each synonym to the topic of the dataset.

An optimized textual document categorization based on Fast Fourier Transform September 2022

- The concept of power spectrum was used to apply the Fast Fourier Transform (FFT) approach to the computations in order to create a novel way for identifying textual materials. a 100% accuracy rate on the 20 NewsGroup dataset and an 88.45% accuracy rate on the BBC news dataset were attained.
- Singh, B., Kaur, A., Nandi, B.P., Jain, A., Tayal, D.K. (2023). An Optimized Textual Document Categorization Based on Fast Fourier Transform.

Artistic alchemy:tranforming reality with neural style transfer July 2022

- Utilized a pre-trained VGG-19 machine learning model to extract both content and style features from two distinct images.
- Executed a style transfer algorithm that effectively combined the content and style features, enabling the seamless application of artistic styles to any image.

Budget Tracker June 2021

- Developed an expense tracker application using React.js and implemented user-friendly features, enabling users to easily add new expenses and interact with their financial data. Introduced a filtering system that allows users to categorize expenses by year, enhancing data organization and accessibility.

CERTIFICATIONS AND EXTRA-CURRICULAR

- Data structures and Algorithms, Coding Ninjas
- Python: Master Programming and Development, Udemy
- Web Development bootcamp, Udemy
- React – The Complete Guide
- D'lang Chaps, The Literary and Managerial Society of GTBIT
- Microsoft Learn Student Ambassador, Alpha
- Faculty Development Program, Host
- GATES Event, Host