

Karmugil K

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Summary

Motivated and results-oriented professional seeking the Technical Research Assistant (TRA) position. Proficient in conducting in-depth data analysis, supporting diverse research initiatives, and effectively collaborating with cross-functional teams. Passionate about contributing to innovative projects and driving research outcomes in a dynamic, fast-paced environment.

Education

Vellore Institute of Technology	01-08-2024 - Present
Computer Science	PhD
Indian College	14-10-2022 - 05-07-2024
Computer Science	M.Sc
7.8	
Pallavan College	01-07-2020 - 14-09-2022
Education	B.Ed
7.2	
Voorhees College	2016-06-15 - 2019-05-30
Computer Science	B.Sc
6.1	

Projects

Webpage Using Html, Css and JavaScript

- Create website structure, appearance, and behavior using HTML, CSS, and JavaScript. - Utilize media queries in CSS for different screen sizes and implement JavaScript to detect device and adjust layout/behavior. - Test website on various devices, consider using responsive design frameworks (e.g. Bootstrap) for efficient development and consistent design.

Scrape Reddit Video Maker

- The script uses the Reddit API and PRAW library to scrape data from a subreddit. It generates a video file from the scraped data using the gtts and moviepy libraries. - The user's Reddit API credentials are entered by the user or read from a configuration file. - The script defines several functions to process the scraped data and create the video file. - The script prompts the user for the subreddit and number of posts to scrape, and then generates the video file.

Infinite Storage Glitch

- Implemented File to Video Conversion: Developed a function to convert files to video format by mapping binary data to pixels in video frames, utilizing the MoviePy library for frame combination. - Enabled uploading video files to YouTube and utilizing YouTube as a storage platform without limitations. - Added a YouTube Video Downloader feature utilizing the pytube library. Users can input a YouTube video URL, and the program fetches and downloads the video in 1080p resolution. - Implemented Video to File Conversion: Extracted frames from videos, converted them to grayscale, and generated binary digits based on color intensity. Converted the binary string back into binary data and saved it as a file.

Certifications

Vfx Animation

Reliance Education

Automate the Boring Stuff with

Python

Udemy

Languages

Tamil

English

Skills

Frontend

Html/Css, Angular, Bootstrap, Java
script, React

Backend

Expressjs, Python/Flask, Postman, Sql,
RESTful API

Programming languages

Python, Java, C++

UI/UX

Figma, Adobe XD

Adobe Creative Cloud

Photoshop, illustrator, Premiere Pro