Ip report for 4 credits of ip
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Introduction

WE were the part of the project Disability friendliness scori ng of websites.
Many websites are not user friendly and persons with disabilities find it difficult to use .
In this entire project we tried to score websites of diff domains and calculate their scores
Using diff scoring apis such as ALPHA,HTML CODESNIFFER ETC.
So that we can derive a useful insights from them to be submitted from the them
The whole output was webapp .our contribution was to implemenet spectrum of database of websites with diff custom domains

Methodology

We need to populate the database the expand it along the course of our ip.
Our databass consisted of educational websites,institutional websites,government websites,research institutes websites.
We utilities google dorking for efficient search of websites
We utilised scoring of websites from 2apis html codesnbiffer ,alpha
Each api evaluated the score using 4 guidelines

WCAG2A,WCAG2AA,WCAG2AAA,Indian guidelines

We made custom javascript script to populate scores
While finding scores we faces issues which were timely discussed and resolved with the backend team.like there were ssl certificate error for many websites intially.
After we implemented the spectrum .
Our next work was to provide useful insights for the paper.
First we created basic plot in the google sheets itself
But in that there were many data redundancy issues and uneven values
So in later stages we used python to filter and make our data ready for plotting
We plotted line graph,boxplot etc.
And visually derived insights from them
In the last weeks we were supposed to profile and learn the association between universities rankings ,Admission and output and disability friendliness
However there were no direct resources for finding a general ranking
Because there are diff ranking systems for institutes such as nirf,brick qs etc
Also data of no of admitted students to a websites was not public for many institutes

Results

Database spectrum of websites 📗 new db
Data analysis for scores of websites using html codesniffer codesniffer
Data analysis for scores of websites using alpha core api alpha
Conclusion
Some of the key conclusions
1).gov websites were among top ranker for scores of friendliness as compared to other domains
2)Indian guidelines failed the most for .gov websites
3)There were many websites we gave a perfect score for some guidelines with no guidelines failed and eventually user traffic on these websites are high.
4)Since .gov websites can get huge user traffic and persons with diff disabilities so it eventually need be with as much as possible with the guidelines
5)Overall for all domains WCAG2AAA GUidelines failed the most as compared to other guidelines such as WCAG2A ,INDIAN GUIDELINES