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PUI
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Final Project

Project: FATE website

Devices: Desktop (1920 x 1080), tablet (1024 x 768), mobile (370 x 670)

Part 1: In 300 words (only!) describe your website (We will stop reading at 300 words, so please be concise). Include the following:

The purpose of my website is to educate users on the topic of FATE (fairness, accountability, transparency, and ethics) in AI. The information covers what FATE means through explanations of the acronym and through a repository of different cases of algorithmic bias that don't uphold FATE values. Interactive animations on the home page and a filterable repository of cases on the 'Cases of algorithmic bias' page make the site interesting and engaging for people of different levels of familiarity of FATE. The 'What is FATE?' page offers explanations that are especially geared towards people with no familiarity with the topic of FATE. The 'Cases of algorithmic bias' page with the repository of cases of algorithmic bias educates users about the domains and sectors in which biases occur. This page will help users understand how widespread algorithmic biases are and how it occurs in systems and products that we use or encounter in our everyday lives. The target audience is everyone, since algorithmic biases impact people of all ages, whether they are technology users or not.

Part 2: (on desktop version) Use a bulleted list to describe how a user would interact with your website.

1. The site opens up onto the homepage, "What is FATE?".
2. On the "What is FATE?" page, you can scroll vertically to read about each of the FATE acronyms. Each acronym description is accompanied by an animation that is activated when you hover over it with your mouse.
3. On the left side of the page is the navigation bar where you can click 'Cases of Algorithmic Bias' to go to that page.
4. On the 'Cases of Algorithmic Bias' page, there are buttons to filter the repository of cases. The cases can be sorted by year, domain, and sector. There is also a button above the filters called "View all," which will reset the filters.

5. Clicking any of the black boxes with the cases below the filters will open up a new page with more information on that specific case.
6. Clicking on 'Cases of algorithmic bias' will bring you back to the repository of cases.
7. Clicking on 'What is Fate?' or 'F.A.T.E.' will bring you back to the homepage with the explanations of the FATE acronym.

Part 3: Describe what external tool you used (JavaScript library, Web API, animations, or other). Following the bulleted list format below, reply to each of the prompts. (We will stop reading at the 4th sentence, so please be concise)

- **Name of tool**
 - o jQuery
 - o Animations
- **Why you chose to use it? (2-4 sentences max)**
 - o I used jQuery on the 'Cases of algorithmic bias' page because it made the case repository interactive.
 - o I used animations on the 'What is FATE?' page to add visual interest and engagement on a page that otherwise has lots of text.
- **How you used it? (2-4 sentences max)**
 - o jQuery was used to make the case repository interactive through the implementation of year, domain, and sector filters.
 - o The animations were used to engage users with the descriptions of the FATE acronyms and to visually summarize the descriptions.
- **What does it add to your website? (2-4 sentences max)**
 - o The use of jQuery and animations in my website encourages users to interact and engage with the information I present about FATE by being able to filter the cases by year, domain, and sector.
 - o The case repository filters help to make the information more digestible by organizing the cases by categories.
 - o The animations are relevant to the topic and illustrate the concepts visually.

Part 4: Describe how you iterated on your prototypes, if at all, including any changes you made to your original design while you were implementing your website. (4-8 sentences max)

The first prototyping phase was prototyping in parallel, in which I produced two different project ideas. I decided to move forward with this FATE project because I think it could be a very useful educational tool and database on the topic of algorithmic biases. For the second prototype, I added more pages and features related to education users about FATE.

However, for the final prototypes, I decided to reduce the scope of my project because the number of pages and features that I had originally designed were too ambitious for my programming skills. Feedback from user testing also helped me to understand and choose which pages and features were the most useful and interesting. I did not include an infinitely scrolling banner with the FATE acronyms at the top of the page because users noted that it was visually distracting when they were trying to read about FATE and the cases. Additionally, I did not use dropdown menus for the case filters because it required more mouse clicking (on desktop) and finger pressing (on mobile) interactions and it relied more on the user's memory recall than being able to see all the filter options at once.


Part 5: What challenges did you experience in implementing your website? (2-4 sentences max)

One challenge that I faced was making the site responsive using breakpoints and media queries. I tried to make my site responsive across desktop, tablet, and mobile, so I spent a lot of time making CSS edits to create smooth transitions across the different screen sizes.

Another challenge that I faced was implementing javascript using jQuery to make the case repository responsive to different filter selections. jQuery was challenging because it uses slightly different syntax and required me to make additions to classes in the HTML tags.

Appendix: Screenshots from WAVE


Home / 'What is FATE?' page


 **WAVE**
web accessibility evaluation tool


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
Styles: OFF ☐ ON ☒


Summary


 Summary


 Details


 Reference


 Order


 Structure


 Contrast


 0
Errors


 0
Contrast Errors

 1
Alerts


 9
Features

 9
Structural Elements

 0
ARIA

 View details >


Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.


 **WAVE**
web accessibility evaluation tool


powered by [WebAIM](#)


Styles: OFF ☐ ON ☒


Details


 Summary


 Details


 Reference


 Order


 Structure


 Contrast


 1 Alerts


 1 X Redundant link





 9 Features


 8 X Alternative text





 1 X Language





 9 Structural Elements


 1 X Heading level 1





 2 X Heading level 2





 4 X Heading level 3




 1 X Header



 1 X Navigation




'Cases of algorithmic bias' page


 **WAVE**
web accessibility evaluation tool


powered by [WebAIM](#)


Styles: OFF ☐ ON ☒


Summary


 Summary







 Details


 Reference

 Order


 Structure

 Contrast

 0 Errors	 0 Contrast Errors
 3 Alerts	 10 Features
 22 Structural Elements	 0 ARIA

 View details >


Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.


 **WAVE**
web accessibility evaluation tool


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
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Details


 Summary


 Details




 Reference



 Order


 Structure

























 Contrast

☒  3 Alerts


☒ 2 X Long alternative text
  

☒ 1 X Redundant link
 

☒  10 Features

☒ 9 X Linked image with alternative text
                       

Specific case page

 WAVE
web accessibility evaluation tool

powered by [WebAIM](#)

Styles: OFF ☐ ON ☒

Summary

Summary


Details


Reference


Order


Structure


Contrast


 0
Errors


 0
Contrast Errors

 4
Alerts


 2
Features

 6
Structural Elements

 0
ARIA

 View details >

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

 WAVE
web accessibility evaluation tool

powered by [WebAIM](#)

Styles: OFF ☐ ON ☒

Details

Summary


Details





Reference



Order


Structure



Contrast



☒  4 Alerts


☒ 3 X Possible heading
   



☒ 1 X Redundant link
 





☒  2 Features



☒ 1 X Alternative text
 

☒ 1 X Language
 

☒  6 Structural Elements

☒ 1 X Heading level 1
 

☒ 3 X Heading level 2
   

☒ 1 X Header
 

☒ 1 X Navigation
