

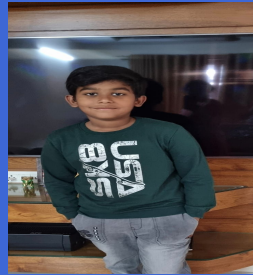
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Refer to instructions on how to make a copy of the presentation template on the Appathon website: <https://appathon.appinventor.mit.edu/#:~:text=Presentation%20Information>

SUSTAINABLE?

Sujatha, Deeksha, Meghana, Nagendra, Yosha, Surya

Please upload a high-quality, well-lit headshot against a plain background for each of your team members.



OVERVIEW

- **App Name:** SustAInable
- **App Description:** The goal of our app ‘SustAInable’ is to educate users regarding the challenges of AI, like AI’s carbon footprint, water footprint and its social impacts including sustainable solutions to reduce it. App also has Water footprint and Carbon footprint calculators and AI content detection tools.
- **Track:** Mixed Team
- **Category:** Climate change and sustainability



THEME

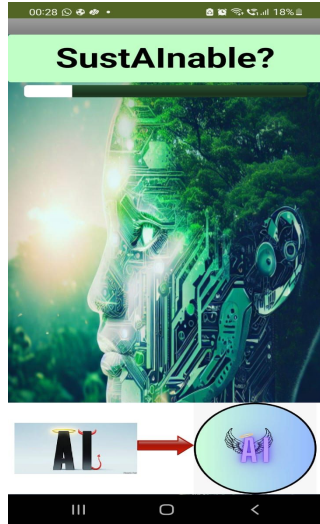
In 100 words or less, describe the problem that you chose to address, and why you were interested in solving it. Please note that this portion of your submission will be published if you are selected as a finalist or winner.

As we know, AI is our future, we would like to address the issues of AI like the carbon footprint, water footprint and social footprint. The goal of SustAInable APP is to harness the potential of AI for the betterment of humanity, while ensuring its applications align with ethical and responsible principles. By following the sustainable solutions of AI, the Carbon footprint ,Water footprint and Social Footprint can be considerable reduced and the society can harness the immense potential of AI to create a equitable, sustainable and beneficial future for all.

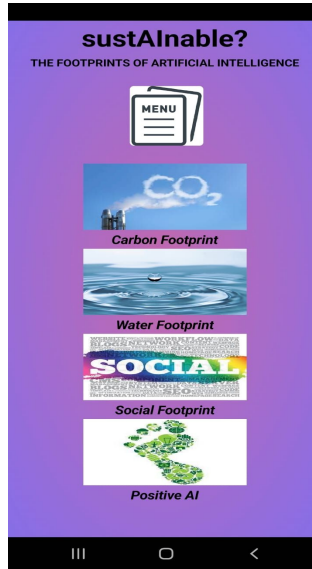
Computational part such as Carbon footprint calculator and Water footprint calculator and tools for Power Usage Effectiveness (PUE) calculation for data centers , AI generated content detector tools are the highlights of the APP.



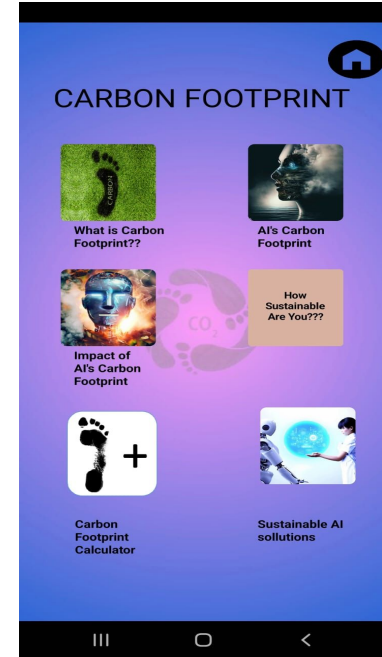
INSTRUCTIONS



Step 1: Front Screen of the App depicting how the positive and negative aspects of AI can be turned to be completely positive.



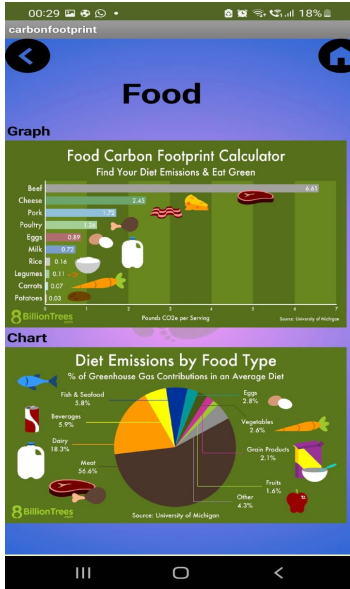
Step 2: Main menu with Carbon, Water and Social footprint and Positive AI



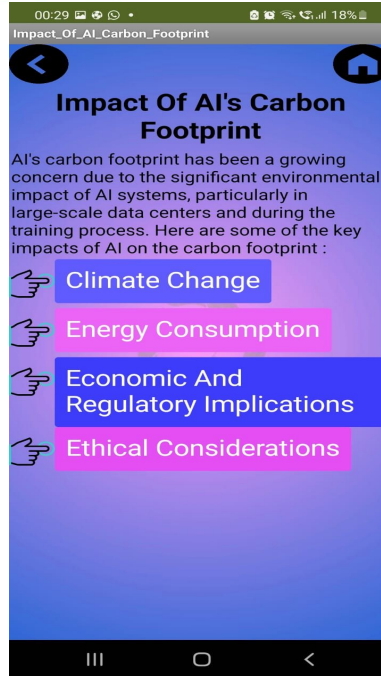
Step 3: Carbon footprint of AI is addressed with impacts and solutions



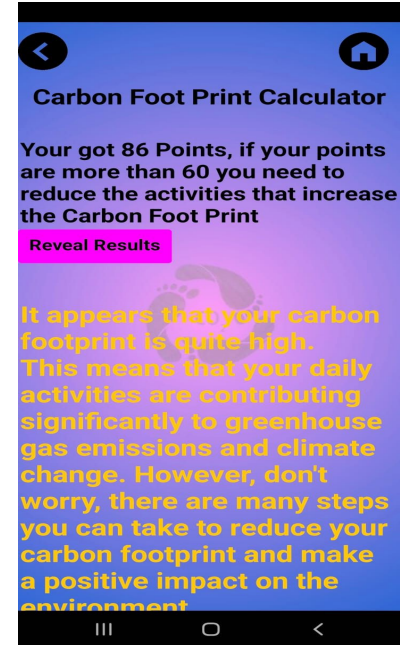
INSTRUCTIONS



Step 6: Show the Carbon footprint distributed for the food category

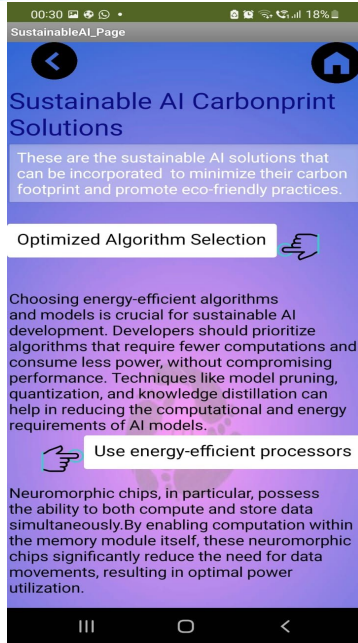


Step 5: Briefs the impact if AI's carbon footprint



Step 6: Carbon footprint Calculator revealing the results.

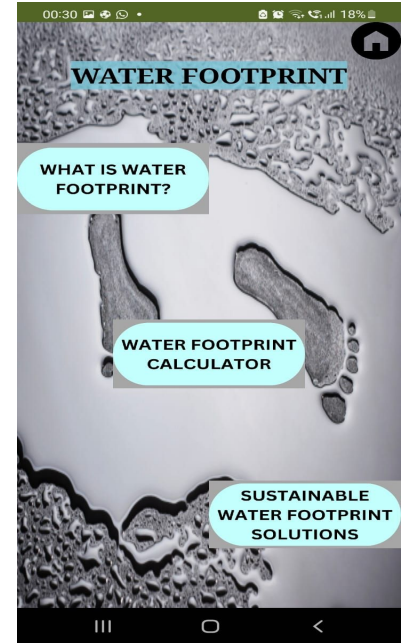




Step 7: Explaining the solutions for reducing the Carbon footprint of AI

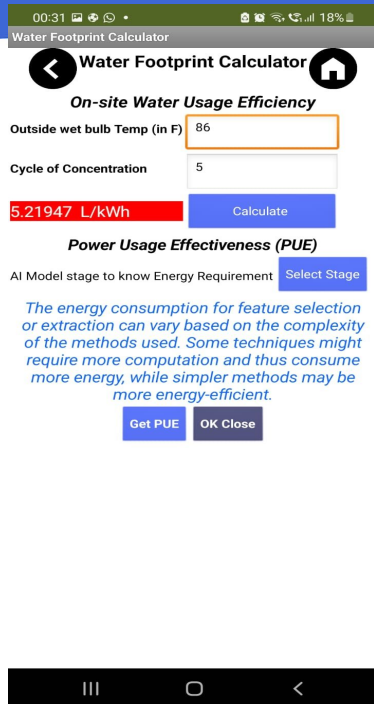


Step 8: Shows the Carbon footprint of the items when clicked.

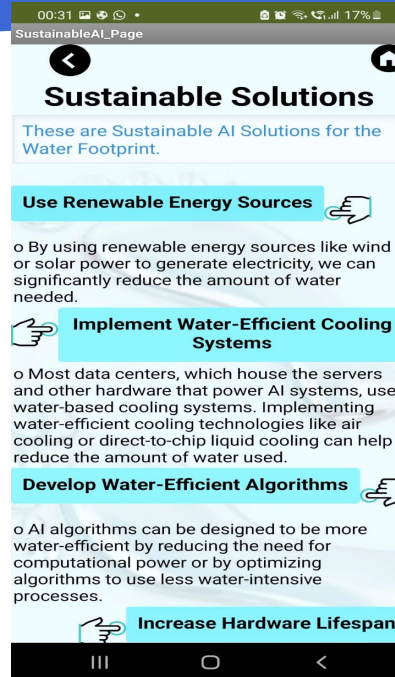


Step 9 Water footprint Menu

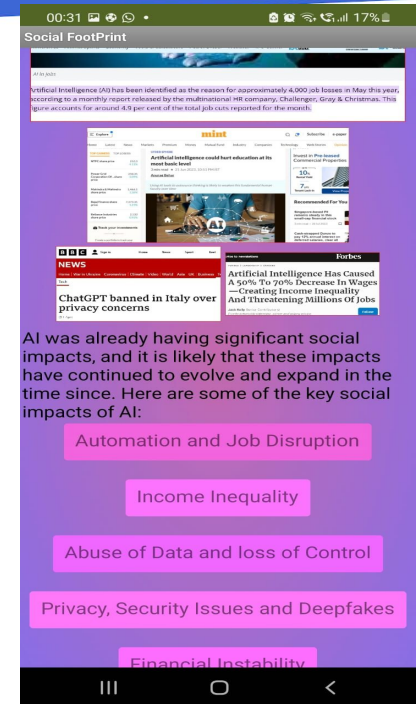




Step 7: Water footprint Calculator



Step 8. Stating the sustainable solutions for reducing the water footprint



AI was already having significant social impacts, and it is likely that these impacts have continued to evolve and expand in the time since. Here are some of the key social impacts of AI:

Automation and Job Disruption

Income Inequality

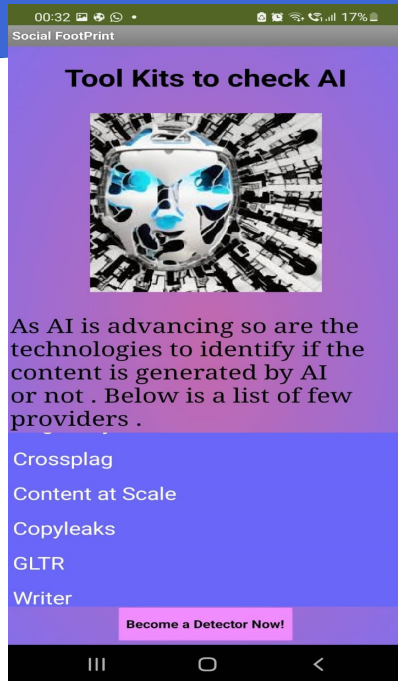
Abuse of Data and loss of Control

Privacy, Security Issues and Deepfakes

Financial Instability

Step 9: Social impacts of AI with news articles





Step 10:: AI content detector tools with the links



Step 11:: Stating the AI Safeguards that some companies have agreed upon



Step 12:: Depicts the fact that if the footprint of AI are tried to be reduced, AI can be more Sustainable



LIMITATIONS

In 100 words or less, describe the limitations of your app and what people should carefully consider when using it.

Some internal error is reported when the screen “AI Carbon Footprint” is clicked which is empty. The screen cannot be removed as well.



ACKNOWLEDGEMENTS

Please list the names of anyone who helped you with developing your app, and describe what type of help they provided.

- Person #1: Making AI Less “Thirsty”: Uncovering and Addressing the Secret Water Footprint of AI Models - Reasearchgate Research paper - by Pengfei Li UC Riverside, Jianyi Yang -UC Riverside, Mohammad A. Islam - UT Arlington , Shaolei Ren1 -UC Riverside - for water footprint methodology
- Person #2: AI content detectors: <https://goldpenguin.org/blog/check-for-ai-content/>

<https://writer.com/ai-content-detector/>

<http://qltr.io/dist/index.html>

<https://copyleaks.com/ai-content-detector>

<https://contentatscale.ai/ai-content-detector/?fr=penguin>

<https://originality.ai/?lhref=OC-lxg>

<https://undetectable.ai/?via=penguin>

- PUE calculation : Schneider Electric <https://www.se.com/ww/en/work/solutions/system/s1/data-center-and-network-systems/trade-off-tools/data-center-efficiency-and-pue-calculator/...>



APPENDIX

- Credits: Images from google, shutterstock and canva
- Extension Used : UrsAI2 SideBar for menu

TITLE: SUSTAINABLE

The goal of SustAInable APP is to create awareness about the Carbon, water and social footprints of AI, the impacts it fosters and the Sustainable solutions for reducing the footprints.

Computational part such as Carbon footprint calculator and Water footprint calculator and tools for Power Usage Effectiveness (PUE) calculation for data centers , AI generated content detector tools are the highlights of the APP.

Components such as UrsAI2SideBars Extension, Clock and Webviewer are used.

