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| Problem (30) | *We are surrounded with Data. Each day, we create 2.5 exabytes of data! To put that in perspective, if you had an iPhone with 512GB memory, you will just need 4882813 iPhone to store this data, every single day. So what happens with all this data? Most of it gets destroyed but we have been learning to tap into it using Artificial Intelligence and Machine Learning to make machines more intelligent! Recommendations on Netflix or the puppy face on Snapchat, AI is everywhere. So it is important to introduce these concepts early on to kids in a fun and engaging way!* |
| Solution (20) | *To achieve this, we have created AI Literacy Tool. A website to learn more about AI and ML while having fun. You can learn more about data and its different types, expand your knowledge about AI and its applications and understand how a machine learns explained using a simple example. Bored of reading, just head over to the example page to see AI in action!* |
| Feature 1 (20) | *Let’s head over to the first example that teaches a machine to identify age and gender from an image. Just upload an image, to get started. The task has been divided into sub-tasks so you know what is happening at each step. Drag and drop a block on the robot to teach it a sub task and see it performing that task on the image real-time. Finally, you have the age and gender identified by our smart robot.* |
| Feature 2 (20) | *Want to learn more? Use the side-panel to quickly switch between examples. This example will teach a machine to identify emotions behind a tweet. Just type in something in the text box or click on random tweet. As before, each block is a sub-task that when performed in sequence results in sentiment detection. Drag and drop a block on the robot and see how the machine can identify sentiments from text.* |
| How did we build it (10) | *The front-end was built using Bootstrap to get responsive design while JQuery and JavaScript were used to create the animations. The backend is mostly Python and Django. For ML, we used various libraries such as OpenCV, NLTK and Dlib.* |
| What next (15) | *There are three important things that can be done to improve the product:*   1. *Create additional examples to cover more AI applications.* 2. *Make examples more complex by having different experience settings such as beginner and advanced.* 3. *Improve the layout and create walkthroughs to enhance user experience.* |
| Call to action (5) | *To implement these, we would need,*   * *Web development engineers to manipulate the website* * *Data Science Majors to implement Machine Learning examples.* |
| Outro (5) | *If you are interested and have these skills, look out for SurroundAI Capstone Project!* |

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