

Cassie -- Dating Advice Robot



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Purpose

- Cassie's primary goal is to provide dating advice to all of her users.
- Adapts to them based on previous information that she has stored about them.
- She does not provide particularly serious advice, but more so exists as a conversational agent that provides humorous advice.





The Dream

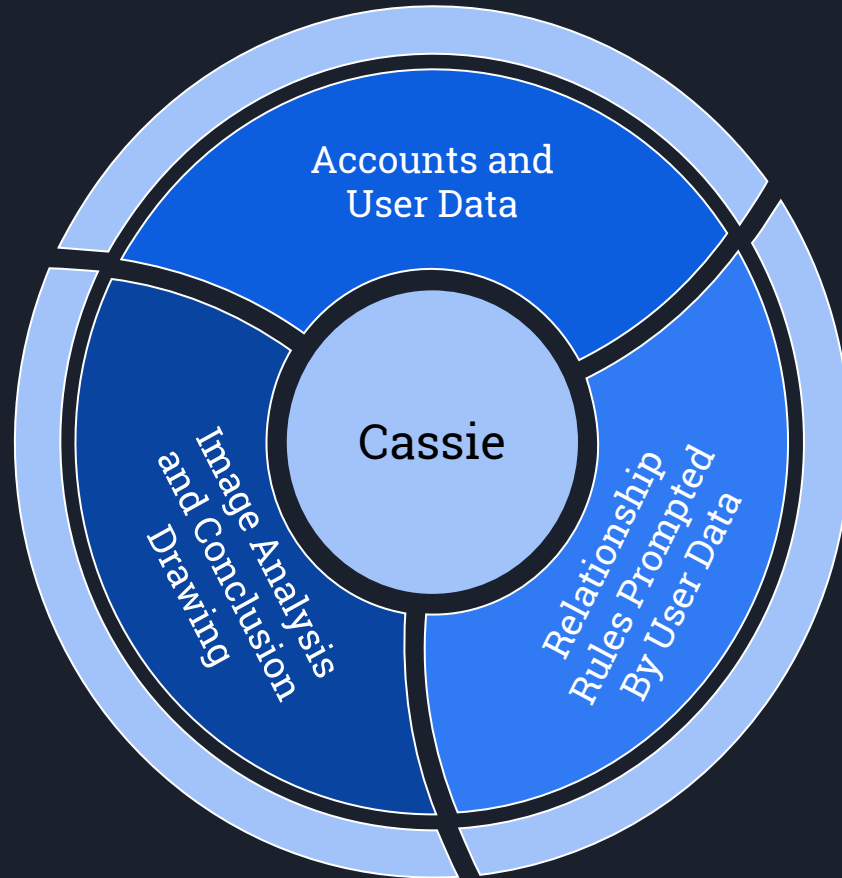
- Starting out, the dream was to have Cassie adapt to her user and hold her own conversation based on what the user said.
- Additionally, we wanted Cassie to be able to scrape a user's social media pages to gain data about them instead of having that data be put in by the users.
- Lastly, we wanted Cassie to be able to uniquely converse with each users changing based on that.

Reality Check

- Scraping social media is hard, especially when the permissions keep changing
 - Due to some recent legal troubles, Facebook made it impossible to see your friendship history with someone through their API
- Having a humanoid robot learn about a user and adapt its conversation uniquely to a user is really hard. Like really really hard!



So What Can Cassie Do?





So What Can Cassie Do?

- Cassie has an account system where she stores users, passwords, and specific categorical information about her users. She can call on this data while making decisions and this data can be updated and modified by both Cassie and her users.
- Cassie uses google cloud vision to analyze pictures of you and your significant other. It analyzes both facial expressions and labels to come up with judgements about your relationship.
- Cassie has a few rules for dating that she will bring up if prompted by your userdata.

Cassie can also communicate with users through both speech and text. When you run the chatbot, you add an argument to explain which version you'd like to use!



Struggles

- Pivoting from a therapy robot to a dating advice robot.
- Facebook API
- Google Vision API
- Python Voice Libraries



What Would We Like to Add?

- Adding another photo recognition algorithm would be helpful as the Google algorithm is not always accurate.
- Add more rules and guidelines for judging relationships.
- Store more permanent information about users.
- Add in social media scraping to get pictures and info about the users including likes and dislikes.
- Add a matching system for all single people to help them find relationships with similar people.



Questions?