

Decoding Data Science(DDS) Academy

AI Application Building Challenge

For students (instructor review required)

Day 1 Idea Submission Template

Project Title:

The title of my project is "The Cyber Compass".

Concept Summary:

(Briefly describe your idea, including its purpose and the problem it aims to solve.)

My AI Application is based on the domain – “Cybersecurity for Children and the Youth”. It is essentially a helping hand to those young people who have had a negative experience on the Internet wherein, they were targeted. Be it cyberbullying, hate speech, threats, exploitation or disinformation, assailants online particularly target children and adolescents due to their vulnerability. Such cyber-crimes committed against them has irreversible mental and physical effects as we have seen in many cases around the globe. The UN has mentioned this as one of the most pressing issues in the world. My aim, by building this application, is to provide a safe space to those victims and survivors, guiding them through the situation to take the next necessary actions. Hence, providing them with enough confidence and precautionary measures to combat any kind of cyber-crime in which they are involved.

Target Audience:

(Who will benefit from your project? Describe their needs.)

My target audience are children and the youth who have been unlawfully exploited online. It is natural and common for these victims to be hesitant to speak up about their experiences and their guardians usually overlook the sheer importance of the issue. So, using my online AI application which would be easily accessible and which conceals their identity as the first step, it is guaranteed to at least help them understand the situation and provide necessary help so that they may overcome the experience. Their needs would be a safe space to talk, which could educate them of the matter and increase awareness so that they may report the

crime and hold the criminal responsible for it accountable.

Key Features:

(List the main features or functionalities of your application.)

1. The application will acknowledge the victim and their experience.
 2. Provide them with confidence so that they can confide in a trusted adult.
 3. Make them aware of their rights (specific to their own country) and guide them with the steps to be taken to report the incident
 4. Help them take pre-cautionary measures so that they may be safe from another experience and be able to tackle it.
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Technical Approach:

(How do you plan to implement your idea? Mention technologies or methods.)

I plan to implement my idea by using the low-code/ no code platform – Airia. I will build an AI agent and customize it so that it recognizes a specific incident and provides the best steps to be taken next. I will use an AI model that is capable of communicating to the user well. Then I will deploy it using a GitHub link.

Expected Challenges:

(What potential obstacles do you foresee, and how will you address them?)

I have quite a lot of features just for one application so I am considering using multiple agents. However, I am a beginner so it will probably be an obstacle for me. I also want to make the interface more presentable and appealing so that users may take comfort and feel safe using the application. I will research on how to develop more skills so that I can reach the above goals.

Submission Format:

(Outline how your submission should be presented: documents, slides, etc.)

I apologize, I haven't decided on my submission format but I am leaning towards creating a few presentation slides along with my final deployable link

Expected Outcome:

(What do you aim to achieve by the end of the challenge?)

I aim to have a basic foundation in AI applications so that I can build on that knowledge to help broaden my skills as a Computer Science student. I also hope to solve world issues and contribute to the betterment of society using those capabilities.

Additional Notes (Optional):

This idea is just version 1 of a bigger goal that I want to achieve. I want children and in fact any user to be protected from predators online as I believe that everyone has the right to use the Internet safely. In the near future, I want to create an application that would be able to detect cyber-criminals in their domain and be able to report them, then and there, taking immediate action.
