

Ethics Checklist

Data Collection and Consent:

Was informed consent obtained from individuals whose data is being used?

Yes.

Are individuals aware of how their data will be used and the scope of data collection?

Yes.

Is there an option for users to opt-out of data collection?

Does not apply to the bowling scenario, we all had to for the final project.

Privacy and Confidentiality:

Are measures in place to protect the privacy and confidentiality of individuals' data?

No, this data is public.

Are there safeguards against unauthorized access or data breaches?

There is no unauthorized access.

Transparency and Accountability:

Are the methods and purpose of the project transparent to stakeholders?

Yes. The purpose of this is to advise bowling throws to users

Is there a clear accountability structure for ethical concerns

Yes, unethical data would be removed from the dataset and the ML would be retrained

Can the results of the analysis be audited for ethical and methodological rigor

Yes, the findings are reliable, valid, and credible

Fairness and Non-discrimination:

Does the data or algorithm introduce any bias that could lead to discrimination?

No.

Are the outcomes fair and unbiased across different demographic groups

Yes.

Purpose and Justifiability:

Is the purpose of the data analysis justifiable, and does it align with ethical goals?

Yes. The purpose is to give advice to help people become better bowlers

Could this project cause harm or benefit society?

It may benefit society by helping people be more active by becoming better at bowling.

Safety and Security:

Are measures in place to ensure the project does not put individuals or society at risk?

No. However, this project will not put individuals or society at risk because it is just advice on how to improve score in bowling.

Are there clear steps for mitigating risks if they arise?

No. There are no risks to worry about for a model that simply advises bowling throws. Routine tests to ensure that the chatbot generates appropriate language will take place to eliminate the possibility of the chatbot using foul/inappropriate language.

Impact on Stakeholders:

Who would be impacted by the project, both positively and negatively?

Stakeholders at bowling alleys would be positively impacted by the project as this model could be used to advertise bowling more and could be trendy.

Are vulnerable populations considered in the project design and analysis?

Yes, this chatbot considers even bowlers with no experience.

Ethics Data Card

Project Purpose and Scope:

What is the primary purpose of this project, how does it benefit stakeholders?

To give advice to improve bowling score. This will benefit stakeholders as this will increase bowling popularity which will help business for bowling alleys.

Is the project scope clear and justifiable in terms of ethical impact?

Yes.

Data Sources and Reliability:

What are the sources of data, and are they credible and ethical?

We collected this data together at Hooplas on 12/13. Yes.

Are potential biases in the data sources acknowledged or mitigated?

There are no biases in the data source to be mitigated.

Stakeholder Transparency:

Are stakeholders informed about the project's aims, data use, and potential outcomes?

Yes.

Is there clear documentation accessible to stakeholders for full transparency?

Yes. The complete raw dataset is included in the public repository

Bias and Fairness Check:

Has the project undergone rigorous checks to identify and mitigate biases?

Yes, no biases were present in the data recording or ML training.

How does the project ensure fairness in its outputs, especially for marginalized groups?

This is objective data reported with no regard to demographics. This data is unbiased and the chatbot only gives advice based on training from this dataset.

Data Protection and Anonymization:

Are data protection measures like anonymization in place?

No. It is not needed because no personal information is input by the user besides first name.

How does the project secure data to prevent unauthorized access?

There is no unauthorized access to the public data.

Ethical Impact Assessment:

Are there mechanisms to assess and track the ethical impact of the project over time?

No. These should be implemented in order to determine how effective this chatbot is in improving bowling popularity..

Have potential risks been identified, and are there mitigation strategies in place?

There are no potential risks in giving advice to improving bowling score as long as the chatbot only uses appropriate language.

Ongoing Monitoring and Accountability:

Is there a plan for ongoing monitoring of the project's ethical impact?

Yes. Continuous monitoring of language and user feedback will allow for the chatbot to be continuously improved..

Are roles and responsibilities clearly defined to ensure accountability?

No. .