




**NAME:** Arabify - Your Arabic Companion  
**DATE:** July 2, 2025 11:05 AM  
**DESCRIPTION OF TECHNOLOGY**  
The idea is to create a kind of conversation tool that allows users to learn Arabic through both speech and written text. The goal is for users to engage in conversations with the AI, which will check their responses for grammar, vocabulary, and other aspects.




**HUMAN VALUES**  
The identity of users is not affected by any means. This is because at this moment, we do not store any user-based data like names, mail addresses or the likes. This may be added in the future, but as of now, this is not of any concern.



**TRANSPARENCY**  
As of now, we are not at the point of working on any user guide. This will be interesting to look at as a built-in feature. The wholistic view of the application is clear, namely choosing a type of exercise to learn from and giving the answer when it is clear. This format is then placed in a chatbot-like environment, where the user continuously can answer the questions proposed by the chatbot.




**IMPACT ON SOCIETY**  
Arabic is one of the most difficult languages to learn. Nevertheless, millions of people around the world speak Arabic. In many cases, these people were either born in Arabic-speaking countries or have paid to become learned in Arabic. This is not feasible for everyone. With this application, We aim to contribute to making learning Arabic easy and free of charge. This is not feasible for everyone. With this application, we aim to make learning available for everyone.




**STAKEHOLDERS**


- Users of Arabify
- Schools in Arabic studies




**SUSTAINABILITY**  
The technology (application) would be running on a website, which would be available all the time. Therefore, it would consume quite some energy. It could be improved by running it on intervals of specific times in order to save energy, specially if it is used by schools or teaching institutions. It would also help to make this application in a way that it is downloadable. This way, the application would only be used when selected.




**HATEFUL AND CRIMINAL ACTORS**  
The technology is essentially a chatbot, which can be used to extract data from the back-end database. Hacking actions like SQL-injections can lead to loss of data or the leakage of data of our users.




**DATA**  
In the data itself, there is a lot of profanity present. We tried our best to clean this data to the best of our ability. There still may contain phrases with profanity, vulgar language or sentences that are written in an inappropriate context. Also, we aim to teach Modern Standard Arabic (MSA), which is very difficult to classify, especially on a larger scale. We tried to include only MSA phrases, but it is likely that sentences of other dialects are included during the models' training.




**FUTURE**  
This technology could be improved to a point when it becomes a respected application available for personal and business usage. It can also be used by everyone from different backgrounds who are interested to learn Arabic. This is because the application enables learning Arabic on a base level. When implemented well, it could even be as good as Duolingo.



**PRIVACY**  
No, our technology does not register personal data. It may contain information regarding people that is already accessible by the public. Think about Wikipedia articles regarding a famous person or references to first names. Therefore, we do not have any risks regarding the registry of personal data.



**INCLUSIVITY**  
The technology itself does not have any built-in bias. However, the data that we use may have some biased text, because it is from an open source. For example, it may include phrases about a certain country or a certain people. It is hard to check all the data for biases, but by utilizing semantic checks on the phrases, we will filter the negative sounding phases out to the best of our ability.




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**IMPACT ON SOCIETY**



**What is exactly the problem? Is it really a problem? Are you sure?**

Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine...

**HATEFUL AND CRIMINAL ACTORS**



**In which way can the technology be used to break the law or avoid the consequences of breaking the law?**

Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder...

**PRIVACY**



**Does the technology register personal data? If yes, what personal data?**

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like...

**HUMAN VALUES**



**How is the identity of the (intended) users affected by the technology?**

To help you answer this question think about sub questions like:

- If two friends use your product, how could it enhance or detract from their relationship?
- Does your product create new ways for people to interact?...

**STAKEHOLDERS**



**Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by...**

When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.

...

**DATA**



**Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into...**

There are fundamental issues with data. For example:

- Data is always subjective;
- Data collections are never complete;
- Correlation and causation are tricky concepts;
- Data collections are often biased;...

**INCLUSIVITY**



**Does this technology have a built-in bias?**

Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases....

**TRANSPARENCY**



**Is it explained to the users/stakeholders how the technology works and how the business model works?**

- Is it easy for users to find out how the technology works?
- Can a user understand or find out why your technology behaves in a certain way?
- Are the goals explained?
- Is the idea of the technology explained?
- Is the technology company transparent about the way their...

**SUSTAINABILITY**



**In what way is the direct and indirect energy use of this technology taken into account?**

One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy. Are improvements possible?

**FUTURE**



**What could possibly happen with this technology in the future?**

Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?

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