Personal Voice Assistant

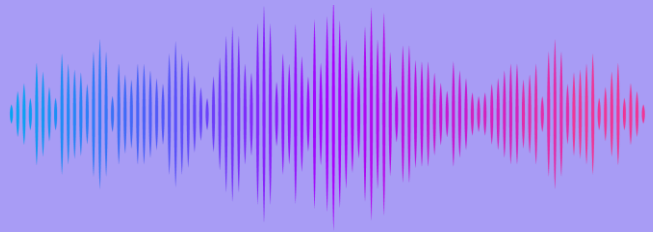
USING MACHINE LEARNING AND NATURE LANGUAGE PROCESSING TECHNIQUES

What do you mean by voice-based assistant?

IMAGE GOES HERE

It is a personalized voice-based AI assistant that is tailored to the specific needs and goals of the user. It uses machine learning and NLP to analyze the user's behavior and provide customized feedback and guidance to help them stay motivated and consistent in achieving their academic and professional goals. This type of assistant has the potential to be a powerful tool for helping users overcome procrastination and stay on track towards their goals.

add more text here

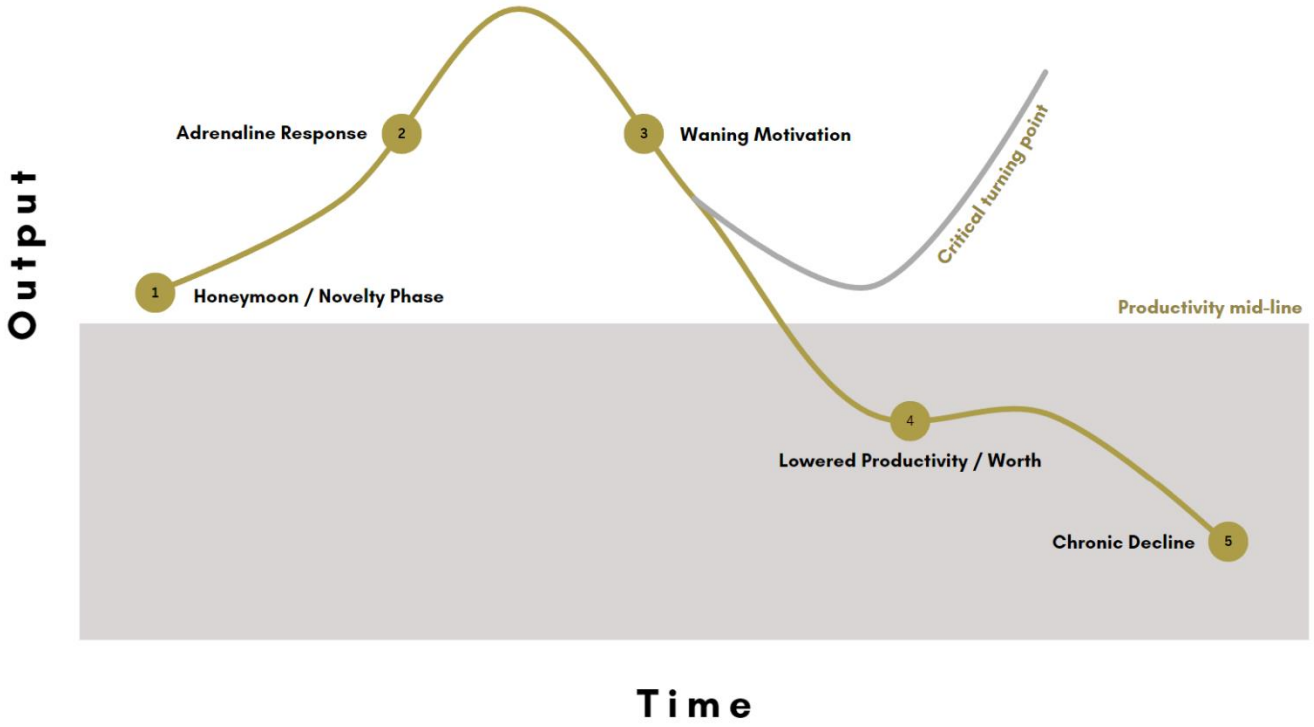


Personal Voice Assistant

USING MACHINE LEARNING AND NATURAL LANGUAGE PROCESSING TECHNIQUES

Group 10: Farhan Rahmoon, Gaurav Gupta, Anikah Nawar, Puneet Mullhi

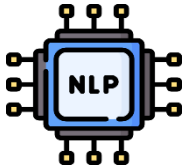
Typical motivation cycle



How does it work?

Wake Word Detection

The voice-based assistant constantly listens for a wake word or phrase like "Hey Assistant," which signals it to begin paying attention to the user's command.



Natural Language Processing

The assistant employs natural language processing (NLP) to analyze the user's spoken command by dissecting its components and leveraging machine learning algorithms to comprehend the meaning.

Cloud-based Processing

The assistant identifies the optimal method for processing results, often utilizing cloud-based processing to generate a response by transmitting the command to a remote server.

Response Delivery

Once the voice-based assistant has processed the user's command and generated a response, it delivers the response back to the user. This will involve speaking the response aloud.

Why is this important?

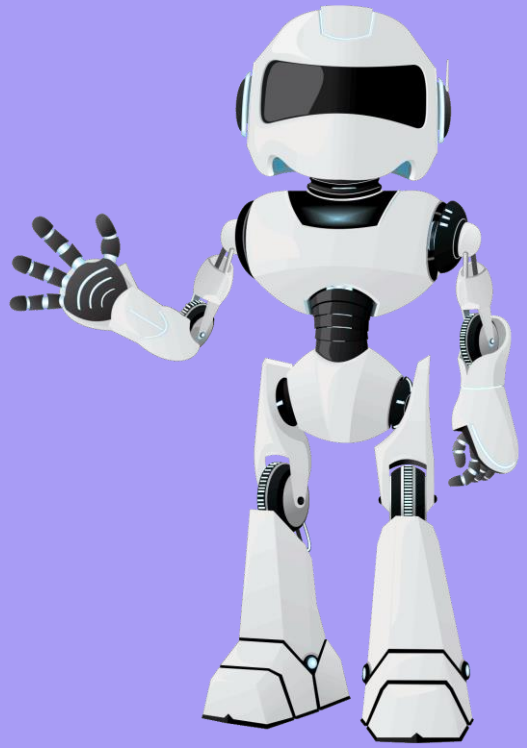
According to a study done by Piers Steel in 2007, he found that:

"*roughly 80-95% of college students engage in procrastination, 75% of which consider themselves procrastinators, and almost 50% of those procrastinate consistently and problematically. Additionally, 95% of the procrastinators studied wished to reduce it*."

Source: [8]

Thank you for listening!

Feel free to ask any questions…



References

[1] "Sound Waves," [Online]. Available: https://e7.pngegg.com/pngimages/26/777/png-clipart-sound-acoustic-wave-desktop-audio-wave.png . [Accessed: 28- Mar- 2023].

[2] Vectorium, "Team Celebrating Victory, Smiling People Champions," ShutterStock. [Online]. Available: https://www.shutterstock.com/image-vector/team-celebrating-victory-smiling-people-champions-1423260530 . [Accessed: 28- Mar- 2023].

[3] Freepik, "Natural Language Processing," Flaticon. [Online]. Available: https://www.flaticon.com/free-icon/natural-language-processing_9831334?term=nlp&page=1&position=7&origin=search&related_id=9831334 . [Accessed: 28- Mar- 2023].

[4] Eucalyp, “Cloud Database," Flaticon. [Online]. Available: https://www.flaticon.com/free-icon/cloud-database_3715079?term=cloud&page=1&position=80&origin=search&related_id=3715079 . [Accessed: 28- Mar- 2023].

[5] Freepik, “Voice Assistant," Flaticon. [Online]. Available: https://www.flaticon.com/free-icon/voice-assistant_2564705?term=voice&page=1&position=96&origin=search&related_id=2564705 . [Accessed: 28- Mar- 2023].

[6] Photo3idea_studio, “Business Man," Flaticon. [Online]. Available: https://www.flaticon.com/free-icon/bussiness-man_3048122?term=avatar&page=1&position=80&origin=search&related_id=3048122 . [Accessed: 28- Mar- 2023].

[7] "Robot Waving," Ceros. [Online]. Available: https://media-s3-us-east-1.ceros.com/aspencore/images/2019/01/04/eba390aab3b0e636eeb47861adc1d520/robot-waving.gif?imageOpt=1 . [Accessed: 28-Mar-2023].

[8] P. Steel, "The Nature of Procrastination: A Meta-Analytic and Theoretical Review of Quintessential Self-Regulatory Failure," Psychological Bulletin, vol. 133, no. 1, pp. 65-94, 2007. [Online]. Available: https://psycnet.apa.org/fulltext/2006-23058-004.pdf?auth_token=e966ee5b6c630614e1de1e2df035efdf462117ec . [Accessed: 02- Apr- 2023].