

ARTIFICIAL INTELLIGENCE CLUB AT MSU



Newsletter Volume 5

MAY 2023



Preface

Dear members, donors, partners, and community,

I am excited to share that we have just finished our second year of operation on a high note. At the Leadership Awards Ceremony, the AI Club at MSU was honored with the Silver Award for "Best Academic Student Organization", a testament to our unwavering commitment to education and dedication to empowering individuals with AI. This recognition humbles us and inspires us to continue our mission with renewed vigor.

Teaching and building projects are the means toward this goal, after all our utmost aspiration is to have made a difference in our members' educational experience. We hope to have complemented your learnings and facilitated a space for you to gain

exposure to AI, but most importantly we hope to have planted a seed that will grow into a genuine passion for AI and will prepare you to responsibly undertake the biggest challenges of this world with the most powerful of technologies.

As we end this academic year, we must bid farewell to some of the individuals who have been instrumental in the development of our organization. Rachel, Josh, Karoline, Fanurs, and Morgan have played pivotal roles in the growth of our club, and we extend our heartfelt gratitude to them. We are confident that their contributions have motivated countless students to pursue AI, and we wish them the best in their future endeavors.

— GABRIEL SOTELO



WORKSHOP RECAP

Spring 2023

We hope you all had fun learning about current topics in AI, like Transformers and ChatGPT through our workshops!

If you're interested in browsing more of our content or reviewing the workshops you participated in, make sure to check out our website:

<https://www.msuaiclub.com/workshops>

Powering AI Through Transformers

March 27th, 2023

In the final workshop of the semester, we learned about Transformer neural networks! Continuing the theme from the previous workshops, we learned about how text generating AI models have evolved over time, leading up to the recent invention of transformers, which are now used in large language models like ChatGPT.

Members learned about how the transformer architecture takes inspiration from human attention to model relationships between words in a sentence. They trained their own transformer model to classify text, such as reviews and tweets, using a dataset of their own choosing.

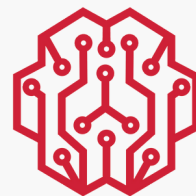
Guest Speaker: AI Futures

April 10th, 2023

AI Futures by Mantel Technologies is "an engagement and mentorship program aimed to help students and graduates understand and explore relevant and advantageous employment opportunities with the Department of Defense." The organization recently hosted a presentation and discussion on its efforts to connect students with government job opportunities in various fields.

During the presentation, AI Futures shared insights on career paths in Artificial Intelligence within the Department of Defense, highlighting their competitive advantages and the cutting-edge work taking place there. The organization also showcased opportunities for students to engage and learn, including hands-on workshops, virtual discussions, and contests.

We look forward to continuing our partnership with AI Futures and are grateful for their valuable contributions to our members' career exploration and advancement in the field of Artificial Intelligence.



AI FUTURES
MANTEL TECHNOLOGIES





GPT-Style Text Generation

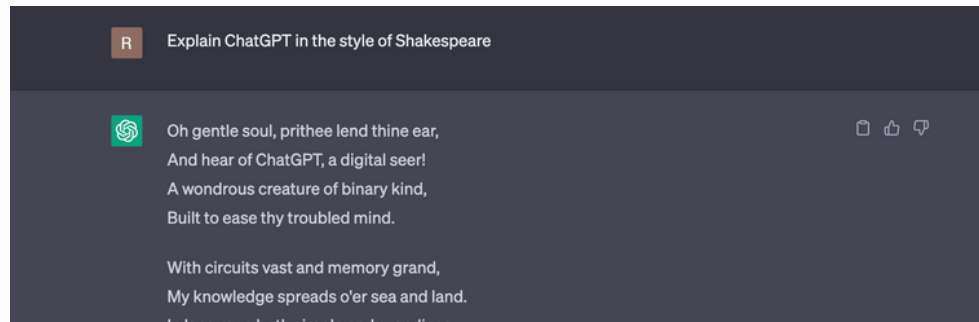
April 3rd, 2023



In the second week of this two-part series, members extended what they learned to train a model to not just classify text but generate original writing in the form of Shakespeare. Training a large language model from scratch can be prohibitively expensive, so we learned about the common practice of fine-tuning a pre-existing model.



In the weeks surrounding this workshop, transformers in AI have seen more rapid development than ever. We're excited to let members get hands-on with technologies and resources that didn't exist just a few months ago.



Closing Ceremony

April 17th, 2023

Each of our project teams for the Spring 2023 semester presented their final demonstrations to the rest of the club. We celebrated all of our accomplishments with pizza, pop, and puppies!

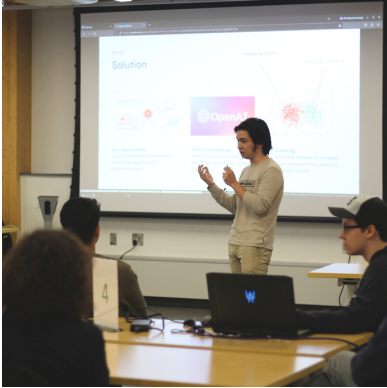




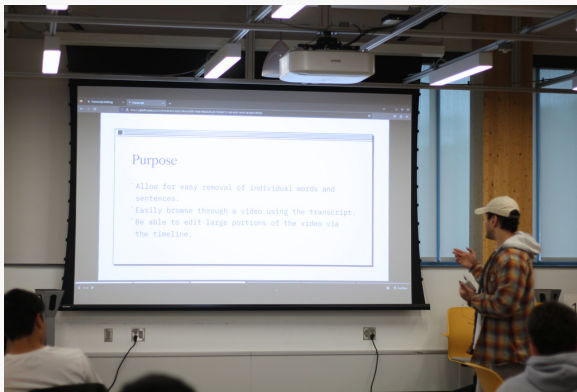
PROJECT RECAP

At our closing ceremony, each of the four project teams had the opportunity to present their final product. Then, the AI Club general members voted on their favorite. Check out the results below!

People's Choice Award: Short Form



Transcript Editor



Astrological Stock Trading



Safety Cam





MOST INVOLVED MEMBERS

Pratham Pradhan
 Michael Kleinbriel
 Lalit Chitibomma
 David Yu
 Seth Neubauer
 Andrew Dagher
 Sean Chapman
 Vashcar Nath
 Tolu Oshin
 Omar Osman
 Soami Kapadia



The AI Club at MSU has been awarded the **Silver Award for Best Academic Organization** and **Honorable Mention for Student Organization Achievement**



Thanks to everyone who made this possible! We would not be able to achieve as much as we have without our dedicated members and e-board.



Don't forget to follow us on Instagram...



msu_ai_club



msu_ai_club

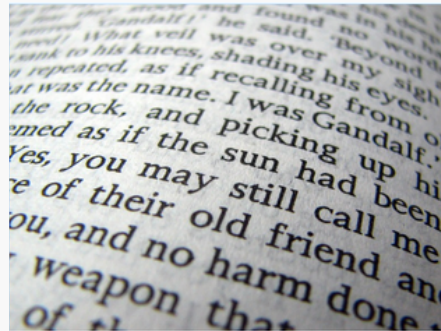


MSU AI Club
Apr 17 · 2 min

Transformers

In this series of workshops, we learned about a relatively new kind of neural network called the...

6 0



MSU AI Club
Mar 27 · 2 min

Language Modelling with Recurrent Neural Networks

In this workshop, we learned about a new class of neural networks. These are an excellent choice for...

8 0

...and check out our website to review past workshops!



As we close on another successful year of the AI Club at MSU, we want to thank all of our supporters. From our club sponsors and mentors, to our e-board, to our project and general members, thank you all!

This will be my last newsletter as marketing director as I have graduated with a BS in Computer Science and will soon be moving out of East Lansing. Thanks again and keep in touch!

— Rachel Townson



Make sure to fill out our end-of-semester feedback form! Anyone who fills out the form will be entered into a raffle to win some AI Club merch.

Make sure to follow all of our social medias for more updates on what we've been up to!

