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# eXplainable Artificial Intelligence.

Bridging the Gap Between AI and Humans.

## What is XAI?

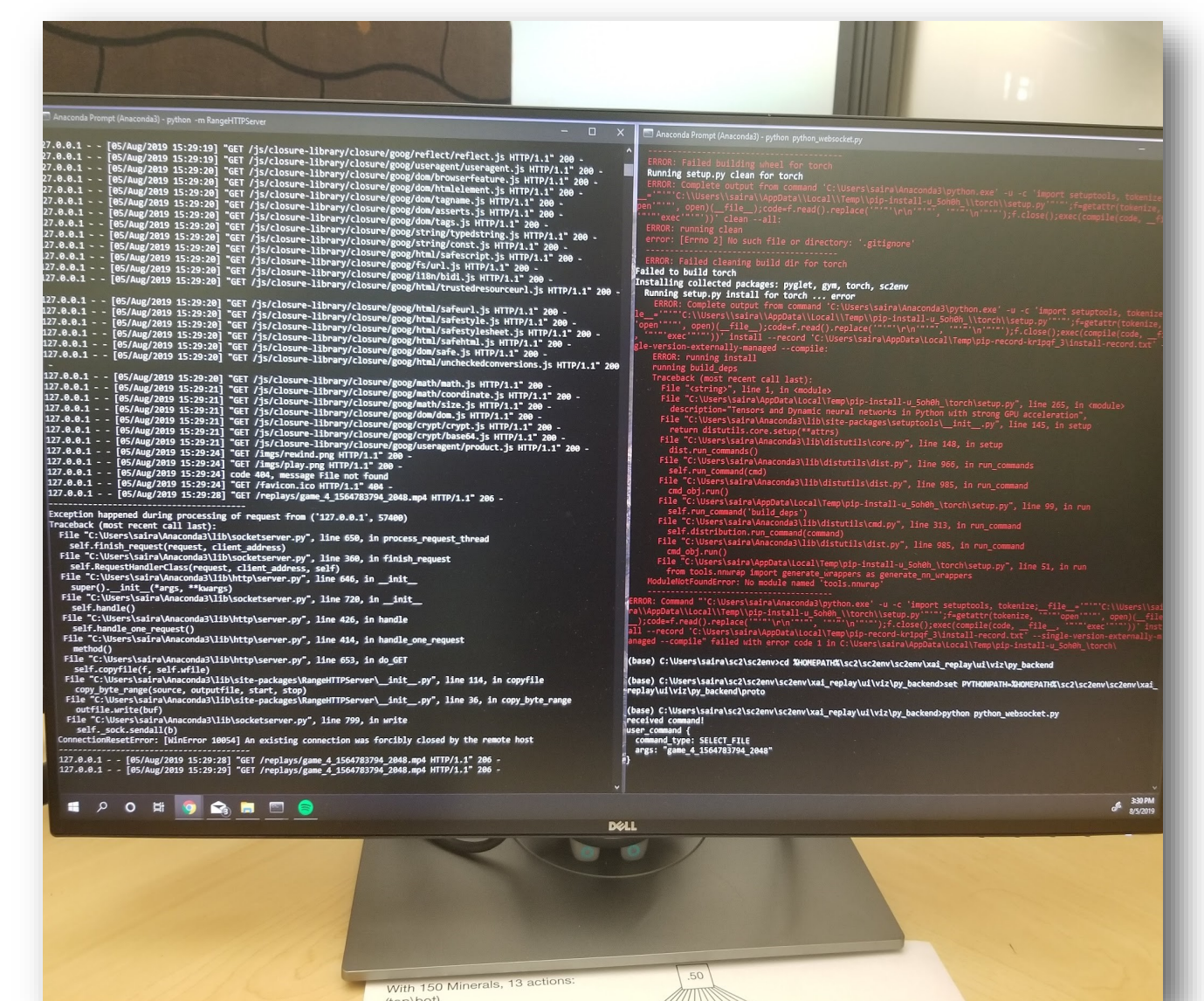
XAI or eXplainable Artificial Intelligence is a field of study that aims to make AI more understandable to the average person. The effectiveness of current AI systems are limited due to low understandability. The current gap of information between AIs and humans is what XAI aims to bridge. By making AI more explainable, humans can rely on AIs while managing them efficiently. The XAI project at OSU is currently funded by DARPA. To learn more about the specifics of XAI, scan the QR code.



## Our Study

This summer I contributed to the XAI project in Dr. Burnett's Lab. Our main task was to create and carry out a qualitative study. The participants of this study were asked to evaluate an AI's decisions based on a video of two AIs playing StarCraft II against each other. The results of this study will answer the question: 'what information do people need to understand and evaluate an AI?'.

**Contributions:** My work involved writing tutorial documents, sandboxing, evaluating and re-evaluating our study design, and transcribing the final study. I also coded the programs that helped generate an explanation of the AIs decision making process. In addition, I coordinated with the AI team to get the explanations up and running. The things I learned this summer include: study design, documentation, machine learning concepts, and a programming Excel macros using Visual Basic Applications.



## The Future of XAI

In regards to our study, OSU's XAI team will use the results of this study to update the game interface. The new interface will be used for the upcoming quantitative study.

The necessity for XAI grows exceptionally by the year. Several companies have implemented AI in some form or fashion. Even though the usage of AI is growing globally, people still have very little to no understanding of how it works. The field of XAI aims to eventually engineer an AI that can produce explainable models while maintaining its original purpose.

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