AI Training Tools

Usage of AI Tools (Copilot)

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Overview:

Task: I am currently researching the importance, usage and protocols of Artificial intelligence.

These include tools such as Microsoft Copilot and OpenAI ChatGPT.

What is Artificial Intelligence:

The theory and development of computer systems capable of performing tasks that historically required human intelligence, such as recognizing speech, making decisions, and identifying patterns. AI is an umbrella term that encompasses a wide variety of technologies, including machine learning, deep learning, and natural language processing.

What Is Artificial Intelligence? Definition, Uses, and Types | Coursera

Ethical Issues and Considerations:

Focus: We will mainly be working and focusing on using **Copilot (web browser version)**

Many ethical issues can be found within the usage of AI and may require external training which include things like potential bias, as well as privacy concerns. Best practices include:

1. **Authenticity and Ownership**
   - When using Copilot to generate things like reports and code.
   - ***Users are responsible for understanding and reviewing the output.***
2. **Limiting Potential Bias**
   - Copilot learns by digging through the web and searching through the vast existing code repositories which may contain bias or unusual patterns.
   - ***Developers should be aware of biases related to race, gender and other factors in the work produced by AI***
3. **Data Privacy Issues**
   - Users should avoid sharing confidential information or sensitive data through Copilot
   - ***Establish guidelines for using Copilot***
4. **Security Concerns**
   - AI is susceptible to malicious attacks. More security measures should be put in place to potentially limit negative effects.
   - ***Apply security policies as applicable.***
5. **Transparency**
   - Users should be transparent with how they share their usage of AI and what work was completed using AI.

Overview (Cont.):

Future of AI Ethics:

Ethical issues and considerations when taking usage of AI are vast and always expanding as technology is. Ethical AI is essential for a responsible future, which leads to a clean society of sustainability and inclusion. Misuse of AI is extremely dangerous with things like potential bias, privacy data being leaked, and security concerns.

Legal Considerations for AI:

- **Violations to intellectual property rights**
- **Data privacy issues that violate General Data Protection Regulation**
- **Data privacy issues that violate the California Consumer Privacy Act**
- **Violations of employment regulations**
- **Inappropriate usage of copyright data**
- **Disputes concerning contract law when generative AI is used**
- **Consumer confidentiality and issues with personally identifiable information**
- **Inaccurate usage of generative AI output**

A more in-depth article goes into more detail about the impact of AI on coding, and the privacy and security concerns in greater lengths.

You can read more about it here:

[Addressing Privacy and Security Concerns with Microsoft Copilot | by Jennifer Lawrence | Medium](#)

Methodology:

What is Microsoft Copilot and OpenAI ChatGPT:

ChatGPT is a natural language processing technology that uses machine learning, deep learning, natural language understanding, and natural language generation to answer questions or respond to conversations.

Microsoft Copilot (Formerly known as Bing Chat) is an AI-powered conversational chat interface. Copilot provides access to powerful AI and is built on a multimodal large language model GPT-4.

A higher and advanced overview and description of Microsoft Copilot can also be found on Microsoft Learn. As well as the key differences between ChatGPT and Copilot

Overview of Copilot | Microsoft Learn

Unleash your productivity with AI and Microsoft Copilot - Microsoft Support

Microsoft Learn, Free Online Copilot Training:

Microsoft Learn provides free online Copilot training that includes information about how to access copilot, data protection basics, styles and features, working with images and more information.

Introduction - Training | Microsoft Learn

Copilot Pro:

Copilot Pro is a subscription that offers accelerated Copilot performance, faster AI image creation, and access to Copilot in Word, Excel (Preview), PowerPoint, Outlook (Microsoft email address required), and OneNote.

GitHub Copilot:

GitHub Copilot is an AI coding assistant that helps you write code faster and with less effort, allowing you to focus more energy on problem solving and collaboration.

More information on what GitHub Copilot is and how to install and implement it can also be found in the links below.

Introduction to GitHub Copilot | Coursera

About GitHub Copilot - GitHub Docs

Conclusion:

How will this affect us?

Whether researching industry insights, analyzing data, or looking for inspiration, Copilot gives users access to better answers, greater efficiency, and new ways to be creative. Copilot is transparent about the sources behind the responses, so you know exactly where the content is coming from. It is encouraged that you review the sources before making decisions or acting based on the responses.

As organizations embrace AI-assisted coding tools like Microsoft Copilot, addressing privacy and security concerns becomes crucial. Microsoft's commitment to privacy, security, and responsible AI is reflected in the measures implemented to protect data handling and usage within Copilot.

Through a proactive approach to privacy and security, businesses can harness the benefits of AI-assisted coding while maintaining the highest standards of data protection and confidentiality.

These links include more information about how to use Microsoft Copilot and how to responsibly use AI.

Learn how to use Microsoft Copilot | Microsoft Learn

13 Principles for Using AI Responsibly (hbr.org)