#### Instructions

This document contains several AI ethics research areas, along with sample articles and videos for each. This is not a complete list, so use it to help you get started before exploring beyond!

#### Computer Vision and Sensors

**Background**

* **Video**: How computer vision works [[link](https://www.youtube.com/watch?v=2hXG8v8p0KM&list=PLzdnOPI1iJNeehd1RXhnVMBFi1WhWLx_Y&index=5)]
* **Article**: Five exciting computer vision applications [[link](https://www.analyticsvidhya.com/blog/2020/07/5-exciting-computer-vision-applications-with-relevant-datasets/)]
* **Video**: AI, Sensors, and Data [[link](https://www.youtube.com/watch?v=OHacOz2Jo1U)]

**Ethical Issues**

* **Video**: Facial recognition [[link](https://www.youtube.com/watch?v=BqQT4sIOYA0)]
* **Article/Video**: AI, gender, and race [[link](https://time.com/5520558/artificial-intelligence-racial-gender-bias/)]
* **Video**: AI and policing [[link](https://www.youtube.com/watch?v=dQcoeClk07c)]
* **Video**: AI in the Classroom [[link](https://www.youtube.com/watch?v=JMLsHI8aV0g)]

#### Social Media, Shopping, and Entertainment

**Background**

* **Video**: 5 technologies that will change the way you shop [[link](https://www.youtube.com/watch?v=iRvaWHk3A8k)]
* **Article**: How AI can help brands align with social media influencers [[link](https://www.forbes.com/sites/petersuciu/2020/08/03/artificial-intelligence-will-help-brands-align-with-influencers/?sh=94ef23279a81)]
* **Video**: AI vs a video game [[link](https://www.youtube.com/watch?v=qv6UVOQ0F44)]

**Ethical Issues**

* **Article/Videos**: How AI recommends videos [[link](https://www.nbcnews.com/tech/social-media/algorithms-take-over-youtube-s-recommendations-highlight-human-problem-n867596)]
* **Video**: AI, social media, and elections [[link](https://www.youtube.com/watch?v=i-rIYadXoms)]
* **Video**: AI and social media marketing [[link](https://www.youtube.com/watch?v=6XfvBb2L01Q)]
* **Article**: Pros and cons of AI in social media [[link](https://www.forbes.com/sites/forbestechcouncil/2017/08/17/13-pros-and-cons-of-integrating-ai-for-social-media-scrubbing/?sh=62cbe45319ce)]
* **Article**: Social and philosophical impacts of video game AI [[link](https://variety.com/2019/gaming/features/ai-ethics-computer-with-souls-self-playing-games-1203176874/)]

#### Human-Robot Interaction

**Background**

* **Video**: Interview with a humanoid robot [[link](https://www.youtube.com/watch?v=zJHyaD1psMc)]
* **Video**: How Alexa works [[link](https://www.youtube.com/watch?v=Qt4lliKBjRw)]
* **Video**: Creating an “AI baby” [[link](https://www.youtube.com/watch?v=yzFW4-dvFDA)]
* **Article**: What are AI chatbots [[link](https://www.uctoday.com/contact-centre/how-do-bots-and-chatbots-work/)]

**Ethical Issues**

* **Video**: Talking to an AI virtual assistant [[link](https://www.youtube.com/watch?v=Y0otgRmscUk)]
* **Article**: Why voice assistants are female [[link](https://www.pcmag.com/opinions/the-real-reason-voice-assistants-are-female-and-why-it-matters)]
* **Article**: AI, race, and customer service [[link](https://www.nojitter.com/contact-center-customer-experience/ai-racism-and-bias-impact-employees-and-cx)]
* **Video**: Social media “virtual teenager” experiment [[link](https://www.youtube.com/watch?v=Lr4yi9onykg)]

#### Employment, Economy, and Finance

**Background**

* **Article**: How AI can create jobs [[link](https://www.forbes.com/sites/suzytaherian/2020/05/26/36-million-unemployed-how-ai-can-create-jobs/?sh=7cc187c34a8c)]
* **Video**: 5 career paths in AI [[link](https://www.youtube.com/watch?v=d2DCUYuJYAU)]
* **Video**: The future of your job in the age of AI [[link](https://www.youtube.com/watch?v=MMIsbl3DIL8)]
* **Video**: The big debate about the future of work [[link](https://www.youtube.com/watch?v=TUmyygCMMGA)]

**Ethical Issues**

* **Article**: AI and job replacement [[link](https://www.vogue.com/article/sinead-bovell-model-artificial-intelligence)]
* **Article**: AI and background checks [[link](https://www.vox.com/recode/2020/5/11/21166291/artificial-intelligence-ai-background-check-checkr-fama)]
* **Video**: AI and medical jobs [[link](https://www.youtube.com/watch?v=xDgkmXAsvL8)]
* **Article**: How human labor powers AI [[link](https://www.thenation.com/article/society/amazon-mturk-artificial-intelligence/)]

#### Healthcare, Human Life, and Well-being

**Background**

* **Video**: Top AI algorithms in healthcare [[link](https://www.youtube.com/watch?v=G1IsZeFR_Rk)]
* **Video**: Why we don’t have self-driving cars yet [[link](https://www.youtube.com/watch?v=qf6VrDZ04EQ)]
* **Article**: AI solves a 50 year old science problem [[link](https://www.bbc.com/news/science-environment-55133972)]
* **Video**: AI won’t replace therapy - yet [[link](https://www.youtube.com/watch?v=AE966uR09es)]

**Ethical Issues**

* **Article/Video**: Racial biases in healthcare AI [[link](https://www.zdnet.com/article/artificial-intelligence-in-healthcare-is-racist/)]
* **Article**: AI and COVID-19 [[link](https://ssir.org/articles/entry/the_problem_with_covid_19_artificial_intelligence_solutions_and_how_to_fix_them)]
* **Video**: AI and the future of healthcare [[link](https://www.youtube.com/watch?v=Q0kGcTI3NcY)]
* **Video**: Self-driving cars and human life [[link](https://www.youtube.com/watch?v=ixIoDYVfKA0)]
* **Article**: How AI bias happens and how to fix it [[link](https://www.technologyreview.com/2019/02/04/137602/this-is-how-ai-bias-really-happensand-why-its-so-hard-to-fix/)]

#### Environment, Natural Resources, and Wildlife

**Background**

* **Video**: AI and sustainability [[link](https://www.youtube.com/watch?v=mJ6rjJiIHyo)]
* **Article**: Detecting plastic litter in natural environments [[link](https://www.wildlife.ai/detecting-plastic-litter-in-natural-environments/)]
* **Video**: Saving biodiversity with tech and AI [[link](https://www.youtube.com/watch?v=qKgRbkCkRFY&feature=emb_title)]

**Ethical Issues**

* **Article**: Environmental costs of AI [[link](https://www.forbes.com/sites/forbestechcouncil/2020/08/17/why-we-should-care-about-the-environmental-impact-of-ai/?sh=480a09b056ee)]
* **Article**: Renewable energy for AI [[link](https://www.newscientist.com/article/2205779-creating-an-ai-can-be-five-times-worse-for-the-planet-than-a-car/#:~:text=Training%20artificial%20intelligence%20is%20an,emissions%20of%20an%20average%20car.)]
* **Video**: How will AI impact society and the environment [[link](https://www.youtube.com/watch?v=zUKsRrf2KIQ&feature=emb_title)]
* **Article**: AI and treatment of animals [[link](https://www.fastcompany.com/90377225/sky-menace-drones-can-capture-great-video-of-wildlife-but-freak-out-the-animals)]