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## Task 1: Annotated Bibliography

### Introduction

My research topic is about exploring the impact of natural language processing on jobs in the arts and writing. Natural language processing is a very popular subfield of AI “concerned with giving computers the ability to understand text and spoken words in much the same way human beings can” (IBM NLP, <https://www.ibm.com/cloud/learn/natural-language-processing>). There’s been some really popular examples of this recently with the emergence of DALL·E 2, “a new AI system that can create realistic images and art from a description in natural language” (DALL·E 2, <https://openai.com/dall-e-2/>). Despite this being an incredible advancement in computer science—and more specifically, artificial intelligence—it does come with some concerns to creative careers. Because if AIs are now able to produce very realistic creative content, in the form of text or images, then what kind of risks does that pose to people who are paid to do these things, such as marketing jobs for example. This ties in really well with the course being about writing, literacy, etc.

## Annotated Bibliography

*Gpt Generative Pretrained Transformer*, Almira Osmanovic Thunstrom, Steinn Steingrimssonm,

“Can GPT-3 write an academic paper on itself, with minimal human input?”. 2022.

hal-03701250ff <https://hal.archives-ouvertes.fr/hal-03701250v1>

This is a credible source because my topic is about NLP and how it will take over the job of writing/producing text. The biggest example of NLP is GPT-3, a relatively new AI that can produce text very impressively. This paper is written by OpenAI, which are the creators of GPT-3 and really leading the expansion of NLP, and it involves examples produced by GPT-3 itself. This makes it a very credible and informational source to use, as examples of technology are weaved directly into the paper. Perfectly relevant to my project.

The main argument of the paper is that the benefits of letting GPT-3 write about itself outweigh the risks. They concluded that GPT-3 clearly has the potential to write an academic paper about itself, yet recognized the limitations of it, which is something I can use as a counterargument in my paper. It's connected to other sources because GPT-3 is the main NLP technology used nowadays, and the paper really discusses how well NLP can take over a human's creative ability.

By: IBM Cloud Education. “What Is Natural Language Processing?” *IBM*,

<https://www.ibm.com/cloud/learn/natural-language-processing>.

This article is very credible because IBM is one of the biggest corporations in computer science and always doing massive amounts of research to further the field. They own one of the biggest NLP AIs in the world called IBM Watson. This article is relevant as it's about what Natural Language Processing is, what it can do, use cases, etc. This is unlike some of the other papers I've included which address more specific topics about NLP, while this one is just providing information about the technology to refer to.

Goldman, Sharon. "Will Openai's Dall-e 2 Kill Creative Careers?" VentureBeat, VentureBeat, 26 July 2022,  
<https://venturebeat.com/ai/openai-will-dall-e-2-kill-creative-careers/#:~:text=According%20to%20OpenAI%2C%20the%20answer,coming%20up%20with%20creative%20concepts.>

This article is written by Sharon Goldman, who's a senior writer at VentureBeat that covers artificial intelligence. The main point of the article directly aligns with what my research paper is about, so this is the perfect resource. It addresses the concerns of my topic and explains the current opinion on the topic.

"How Natural Language Processing Impacts Professions.",  
<https://www.wolterskluwer.com/en/expert-insights/how-natural-language-processing-impacts-professions.>

The article includes an interview with Quentin Reul, Director of Product Software Engineering, about how NLP impacts different industries. This is a perfect article because I'm looking at the impact of NLP on certain professions, so this will give me valuable insight into the direct impact/industries. This does connect to my other source about the impact on creative careers.

McGehee, Cate. "What Does Natural Language Processing Mean for Writers, Content, and

Digital Marketing?" *Portent*, 19 Apr. 2018,

<https://www.portent.com/blog/content/essay-natural-language-processing-impact-writers-content-digital-marketing.htm>.

This article directly addresses writers' jobs, which is what relates my project to this class as it concerns writing jobs. This article connects well with the other sources that I included as they all address the impact of NLP on jobs, the difference being that each article addresses a similar topic from a different point of view.