

# Applying Knowledge

## Weekly Report 8: 10/19 - 10/25

One of the most important aspects of growing in your respective career field is to apply the knowledge you have gained. This can be through developing a project, using your knowledge to understand further research, or explaining the aspects you have learned to other people.

This past week I had the opportunity to apply my knowledge in natural language processing by initiating my original work. In doing this, it was easier deduce how to apply the aspects of my research into practice while gaining a better understanding of the core functionality of natural language processing techniques.

Despite this learning opportunity, the process had a major challenge of applying machine learning frameworks to pieces of data like language. To overcome this, it was necessary to go back to the fundamentals of machine learning to deduce that all data needs to be numerically represented. Using these fundamentals, I gained the ability to drive my research to the next step which proved useful especially since most research done today is based off of prior knowledge. Through synthesizing prior knowledge for current work, it proved to be incredibly helpful because the process of machine learning is still the same.

Reflecting for the future, I think that it is times like these which allow me to develop my research skills while becoming a more versatile developer. Through this experience, I was able to think logically about a problem and execute a solution from start to end. By applying research knowledge to real products, I am gain a better understanding of the concepts I am applying. Additionally, I gained some of the most fundamental skills every researcher should have: adaptability, creativity, and persistence. Research skills like these have prepared me for the future when I may face similar challenges as a software developer.

