**Reflective Journal for AI 900 Lab 4**

**Learning Experience:** During Lab 4 on the MSLE Skillable Platform, I worked through various modules that introduced me to the core concepts of machine learning in Azure. I learned about creating and deploying machine learning models using Azure Machine Learning Studio. This lab provided practical experience in setting up datasets, training models, and evaluating their performance in a cloud environment, which gave me a solid understanding of how these processes work in real-world applications. I also explored how Azure's tools can simplify the workflow of model training and deployment, making it more accessible to users without an extensive background in data science.

**Challenges Faced:** One of the main challenges I faced during this lab was configuring the environment correctly. There were several settings and configurations that I had to pay close attention to, such as selecting the appropriate compute instance and understanding the difference between pipelines and individual experiments. I initially struggled with managing the workspace settings, but after some trial and error, I managed to configure it correctly. This helped me appreciate the importance of careful setup in cloud-based machine learning environments.

**Insights Gained:** Completing this lab provided me with several key insights. First, I understood how powerful and user-friendly Azure Machine Learning can be, especially when working with large datasets and complex models. I also realized the importance of experiment tracking and version control, as it made it easier to manage and compare different iterations of the model. Additionally, I gained insight into how cloud platforms like Azure enable scalability, allowing models to be trained and deployed much more efficiently compared to local environments.

Overall, this lab not only enhanced my technical skills in using Azure ML but also improved my problem-solving abilities, as I learned how to troubleshoot and adjust configurations effectively. It was a valuable learning experience that brought together theory and practice in an engaging way.

