

MLOps Assessment for an Insurance Company

- **Problem**

- This insurance company has a long tenure in the data science and machine learning space.
- Data scientists on the team have built a range of models to provide deeper insights into risk quantification and mitigation for insuring industrial sites and equipment.
- There are many models that have been built, including business rule models, optimization models, statistical models, and machine learning models.
- A lot of the data science process has been manual, without standardization and there is a recognized need to start providing some standardization and automation to the deployment process.

- **Solution**

- Spyglass engaged with the client to deliver their MLOps offering for the Advanced Analytics group which had just started to explore the capabilities of Azure.
- Spyglass reviewed their current workflow, pain points, security requirements and applied responsible AI considerations to the assessment.
- We then worked to formulate a clear technical and non-technical roadmap and design for the evolution of the team's workflow.
- This was a fundamental improvement, and while the expected ROI is hard to quantify, new use cases that could be unlocked, and the time saved by the data science teams members could be substantial.

- **Benefits**

- Reduce the time to getting models ready to be productionized and will help data scientists without software engineering training be successful in the endeavor.
- Enable the field engineering team to get up-to-date risk information while they are out visiting customer sites.
- Increase the productivity and efficiency of the data science team to get their work done, particularly as there are relatively few software engineers and senior data science individuals