Databricks xOps - An Insurance Company

Problem

An established insurance company specializing in risk assessment and mitigation for industrial sites and equipment had been relying heavily on data science models to enhance their services. However, the lack of standardization and automation in their data science processes led to inefficiencies and inconsistencies. The models were manually developed and deployed, resulting in:

- Prolonged time to productionize models
- Over-reliance on a few senior data scientists and software engineers
- Inconsistent and time-consuming risk assessments
- Difficulties in identifying upsell opportunities for loss prevention products
- Challenges in scaling solutions across the enterprise

Solution

Spyglass engaged with the insurance company to deliver their MLOps offering, known as Spyglass Databricks xOps. This solution aimed to revolutionize the data science process by integrating AI, model, data, and infrastructure operations.

With 50+ engineers and Data Scientists on the team, the implementation of Spyglass Databricks xOps led to a significant transformation in their way of working. The engineers reinvented their processes and began to support business-critical workloads more effectively.

Spyglass Databricks Xops Key steps:

- **Standardization and Automation:** Establishing standardized processes for model development, testing, and deployment. Automation tools were introduced to streamline these processes, reducing manual intervention and errors.
- **Education and Onboarding:** Providing office hours and hands-on education sessions to onboard a team of localized data scientists to the new platform. This ensured that the team was well-equipped to utilize the new tools and processes effectively.
- **Platform Adoption:** Ensuring that the new platform, Databricks, was widely adopted and accepted within the team's workflow. This involved continuous support and training to facilitate a smooth transition.
- **Infrastructure and Security:** Implementing robust infrastructure and security measures to support the broad spectrum of applications and ensure data

Benefits

- **Enhanced Efficiency:** The time required to get models production-ready was significantly reduced, allowing data scientists to focus on more strategic tasks.
- **Scalability:** The standardization and automation of processes enabled the team to scale solutions across the enterprise, ensuring consistent and accurate risk assessments.
- **Improved Productivity:** The productivity and efficiency of the data science team were greatly enhanced, particularly as the new platform reduced the reliance on senior data scientists and software engineers.

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