SUMMARY

Our client, a leading agriculture technology manufacturer, had existing internal teams that lacked prior experience in Machine Learning (ML), hindering their ability to create and deploy future ML solutions. They wanted to cultivate ML proficiency within the team, however, the team had to identify a suitable internal project where ML implementation would yield substantial value. The team brought in Source Allies as technical coaches so they could identify a viable project, acquire ML expertise and successfully deploy an ML solution within a short timeline, starting with a proof of concept, and ultimately providing value to the internal client.

SOLUTION

We addressed the client's challenge by leveraging machine learning (ML) to optimize their SQL server management. Initially, manual audits were done to identify servers suitable for downsizing or decommissioning, a labor intensive and time-consuming process. We utilized this manual audit data as training data for our predictive model.

After deploying our ML model, the client changed this recurring manual task, which previously took several people a full fiscal quarter to complete, into a process that now takes minutes. The results of this process are estimated to save in excess of 3 million dollars over the next four years, with an accuracy rate of 93.1% between our model's predictions and previous manual efforts. Additionally, our coaches are empowering their existing team by imparting ML training, enabling them to independently refine models for future projects. This makes the team self-sufficient and also ensures the sustainability of these skills within the organization.

Our approach focused on delivering tangible value rather than just a proof of concept, and the client can now have a weekly dashboard for efficient server management. The client has plans to integrate our solution directly into their pipeline, where it can continue to provide future cost and time savings.

RESULTS

93.1%
ML model predicted with 93.1% accuracy

3 Million
Estimated 3 million dollars saved

3 Months
Process reduced from 3 months to just minutes