

# SOLUTION

# 1. Auto ML Mining Simulation Tool:

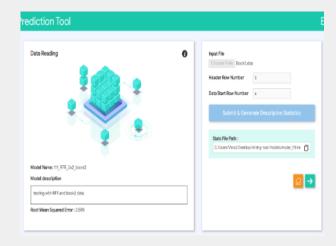
- Developed a multi-output regression model for predicting blast outcomes based on simulation data.
- Enabled self-service model building and validation for mining engineers through an intuitive interface.

## 2. Real-Time Data Analysis:

- Built an Auto ML platform to train and deploy models with capabilities to retrain based on new datasets.
- Created dashboards for visualizing predictions, model performance, and resource usage metrics.

## 3. Integrated Reporting System:

· Automated report generation for blast analysis, offering actionable insights for optimization.



## **IMPACT**

- · Improved blast result prediction accuracy by 25%
- · Reduced trial-and-error costs by 20%, saving significant resources.
- · Enabled data-driven decision-making with real-time visualization and reporting.