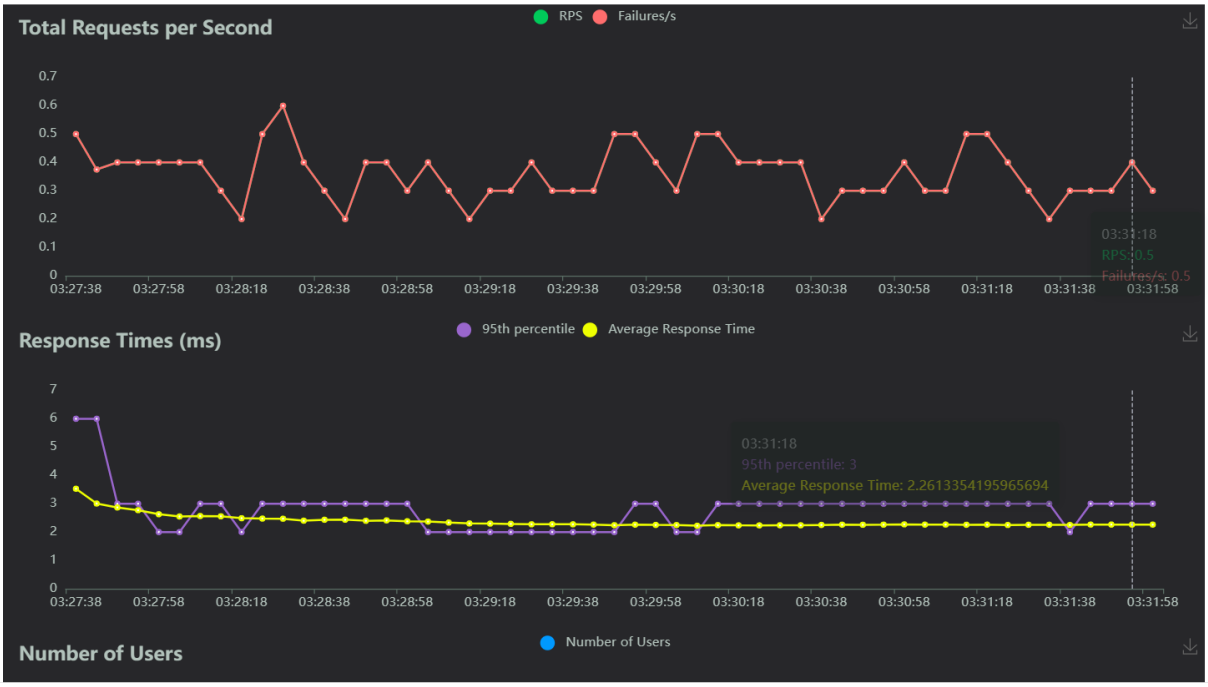
Analysis of Locust Test Results for Web and TensorFlow AI Solutions on Kubernetes

This report presents an analysis of Locust performance test results for two distinct solutions: a web application and a TensorFlow-based AI model. Both solutions are deployed on a Kubernetes cluster and managed using Helm charts. The primary goal of this report is to evaluate the performance and scalability of these solutions under different load conditions.

For TS model:

Charts



For web solution:

The Locust test results indicate that the web application performs well under the initial load, with low average response times and the ability to handle traffic spikes effectively. Occasional high response times should be investigated and addressed to ensure consistent performance. By leveraging Kubernetes and Helm, the web application benefits from easy deployment and management, ensuring it can be scaled and optimized effectively as demand grows. Regular monitoring and load testing are recommended to maintain and improve the performance of the web solution.

Note on AI API Testing

When testing the TensorFlow AI model, the API connection failed, resulting in constant crashes. Therefore, performance analysis of the AI solution could not be performed. Unfortunately, I was unable to fix the error with the connection to the AI API and, consequently, perform a reliable test of this solution.