Risk Analysis

## Technical Risks

### Risk of Inaccurate Analysis

There's a risk that the program may not accurately analyze replays due to incorrect logic, outdated algorithms, or compatibility issues with different SC2 versions.

* Mitigation: Regularly update the program to align with the latest game patches, and thoroughly test the program with a variety of replays
* Contingency: Temporarily remove feature that is inaccurate until we can guarantee accuracy

Risk of Incompatibility with Future SC2 Updates  
Future updates to SC2 might change the replay format or introduce new features not supported by the current program.

* Mitigation: Plan for regular updates and maintenance and stay informed about upcoming SC2 updates.
* Contingency: Make it so the program doesn’t accept replays past the date of the new update until the program is compatible with the new version of sc2 replays.

## Legal and Compliance Risks

Risk of Data Privacy Violations  
If the analytics tool collects user data, it must comply with data protection regulations like GDPR or CCPA.

* Mitigation: Implement strong data privacy policies and only collect necessary data with user consent.
* Contingency: Shut down program until it complies with data protection regulations.

## Operational Risks

Risk of Dependency on External Libraries

The project might rely on external libraries (like sc2reader) which could become outdated or unsupported.

* Mitigation: None
* Contingency: Drop project

Risk of Insufficient Testing

Inadequate testing can lead to undetected bugs and issues in production.

* Mitigation: Implement comprehensive testing strategies, including unit tests, integration tests, and user acceptance tests.
* Contingency: Fix bugs, possibly rollback to previous version of product and add more comprehensive testing