**Project Status Report**

**Northrop Grumman – Quantum AI AT The Edge**

**As Of: 03/28/2022**

**Project Status Summary**  Percent Complete: 60%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Scope | Schedule | Cost | Risks | Quality |

Risks

The sponsor has communicated that this project is fully R&D and exploratory by nature. There is a high probability that the project will not actually work. However, we will certainly be doing our best. If the quantum piece fails to show improvements over traditional models, then traditional models will be used for inference on the emulator.

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# Work Planned for Last Week

We planned to continue to refine the models. We will have to work with the sponsors to redefine the scope of the project or acquire a physical board from them that we can deploy the models to. As a result, both teams will continue to attempt achieving higher accuracies on the machine learning models while we wait to figure out how the scope will be redefined or see if we can get a physical board to use since emulation is not supported.

# Work Completed Last Week

We completed no work last week due to Spring Break.

# Work Planned For Next Week

We will continue to refine the models and work with the sponsors to redefine the scope of the project or acquire a physical board from them that we can deploy the models to. As a result, both teams will continue to attempt achieving higher accuracies on the machine learning models while we wait to figure out how the scope will be redefined or see if we can get a physical board to use since emulation is not supported.

# Open Issues

* Hardware emulation is not supported. We will have to get rid of the emulation component of this project or acquire a physical board. We are waiting to hear back from the sponsor before proceeding.

# Deliverables and Milestones

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Milestone | WBS | Planned | Forecasted | Actual | Status |
| Initial development environments | 002 | 10/11/2021 | 10/11/2021 | 10/12/2021 | Complete |
| Supplemental development environments | 004 | 10/30/2021 | 10/30/2021 | 10/31/2021 | Complete |
| Setup Vitas | 006 | 10/21/2021 | 1/15/2021 | 1/14/2021 | Complete |
| Solution Design | 008 | 01/31/2022 | 02/18/2022 | 2/24/2022 | Complete |
| Deliverable | WBS | Planned | Forecasted | Actual | Status |
| Setup git branches | 003 | 10/3/2021 | 10/3/2021 | 10/3/2021 | Complete |
| Project Charter Updates | 001 | 10/14/2021 | 10/15/2021 | 10/14/2021 | Complete |
| Requirements Document | 005 | 10/21/2021 | 11/08/2021 | 11/15/2021 | Complete |
| First Use Case | 007 | 10/21/2021 | 10/24/2021 | 10/24/2021 | Complete |

# Open Change Requests

|  |  |  |  |
| --- | --- | --- | --- |
| Change Request Name | Change Request Number | Request Date | Current Status |
| NA |  |  |  |
| NA |  |  |  |

# Key Performance Indicators (KPI's)

**Schedule** - Project is on schedule

Schedule Variance (SV): +/- 2 days

**Cost** - Project is on budget

Cost Variance (CV): $0