

# REA705 PROJECT STATUS UPDATE

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GROUP SSL

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# PROJECT TOPIC REMINDER

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- Practical introduction to using machine learning for malware detection
- Consists of a theoretical portion and practical portion
- Self contained environment (VMs) or can be done manually using commands



# UPDATES FROM PROJECT PROPOSAL PRESENTATION

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- Officially integrated into Seneca curriculum
  - Practical components of project to be used as labs for SRT521, introduced in Fall 2021
  - Coordination with Asma to ensure labs are sufficient quality
- Milestones adjusted
  - Practical and technical components moved to top priority to accommodate for new schedule and deadlines
  - Theoretical components moved to REA820 as they are lower priority
  - Final report draft now occupies last  $\approx 2 - 4$  weeks of REA705



# PROJECT PLAN

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- Integration with official Seneca curriculum required project plan changes
- REA705 – Labs and Final Report Draft
  - Week 1 to 10 – Perform lab tasks and write lab
  - Week 10 to 13 – Write final report draft
- REA820 – Tutorials and Final Report
  - Week 1 to Study Week – Write tutorials on various fundamental ML concepts
  - Study Week to End of Semester – Write final report



# OVERALL PROJECT STATUS – REA705

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- 4 milestones to be achieved this semester
  - Represents submission of major deliverables
  - Deliverables include practical components (i.e. labs), and final project report draft
- Overall, ahead of schedule slightly
  - Buffer of about a week





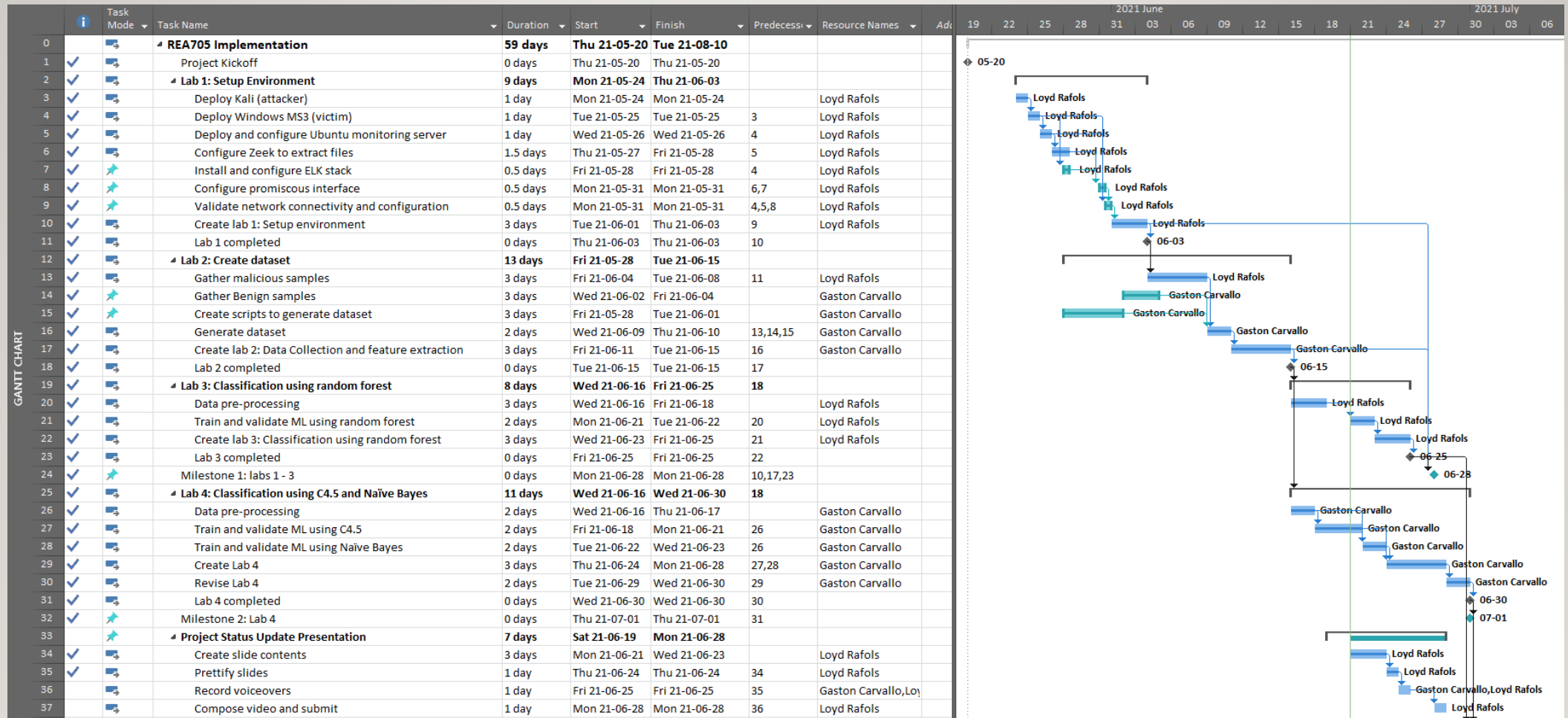
# CURRENT PROJECT PROGRESS

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- Milestone 1 - Labs 1 to 3 completed
  - All three labs completed ahead of schedule
- Milestone 2 – Lab 4 completed
  - Completed ahead of schedule
- Milestone 3 – Lab 5 and 6 completed
  - To be started, projected to be completed ahead of schedule
- Milestone 4 - Final Report Draft
  - To be started, will have about 3-4 weeks of time to perform work



# MS PROJECT OVERVIEW



# SUMMARY

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- Project Topic: A Practical Introduction to Applying Machine Learning to Malware Detection
- Project plan changes due to integration into Seneca curriculum
- 4 milestones to be achieved in REA705, currently a few days ahead of schedule
  - Practical components (labs) and final report draft





# THANK YOU

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- Group SSL
  - Gaston Carvallo
  - Loyd Rafols
- Topic: A Practical Introduction to Applying Machine Learning to Malware Detection
- Website: <https://rea.000109.xyz/>
- Website post and slides download: <https://rea.000109.xyz/REA705ProjectStatusUpdate>
- Course: REA705 Summer 2021, Mark Shtern & Mohammed Alani

