# Topics in Applied Operational Research

| | |
|---|---|
| Project manager | Todd |
| Project dates | Jan 21, 2026 - Mar 31, 2026 |
| | |
| Completion | 0% |
| Tasks | 49 |
| Resources | 4 |

Team members: Ben de Sousa, Alexandros Zachakos, and Nolan Willoughby.

## Tasks

| Name | Begin date | End date | Resources | Deliverables | |
|---|---|---|---|---|---|
| Decide on Project Question | 1/21/26 | 1/21/26 | Todd, Ben, Alex, Nolan | | ● |
| Workshop 1 | 1/22/26 | 1/22/26 | Todd, Ben, Alex, Nolan | | ● |
| Workshop 2 | 2/4/26 | 2/4/26 | Todd, Ben, Alex, Nolan | | ● |
| Workshop 3 | 2/18/26 | 2/18/26 | Todd, Ben, Alex, Nolan | | ● |
| Workshop 4 | 3/4/26 | 3/4/26 | Todd, Ben, Alex, Nolan | | ● |
| Workshop 5 | 3/18/26 | 3/18/26 | Todd, Ben, Alex, Nolan | | ● |
| | | | | | |
| Project Plan Development | 1/23/26 | 1/29/26 | | | ● |
| Write Project Overview | 1/23/26 | 1/24/26 | Todd | Project description | ● |
| Develop Task List | 1/25/26 | 1/27/26 | Todd | Task list | ● |
| Build Gantt Chart | 1/28/26 | 1/28/26 | Todd | Gantt Chart | ● |
| Develop Risk Register | 1/29/26 | 1/29/26 | Todd | Risk Register | ● |
| Project Plan Submission | 1/30/26 | 1/30/26 | Todd, Ben, Alex, Nolan | Project plan report | ● |
| | | | | | |
| Final Report Introduction | 1/23/26 | 1/24/26 | Nolan | Written project background and plan | ● |
| | | | | | |
| Data Analysis and Subset Selection | 1/30/26 | 2/4/26 | | | ● |
| Assess Data for Errors | 1/30/26 | 2/1/26 | Todd, Alex | | ● |
| Decide on Appropriate Subset | 2/2/26 | 2/4/26 | Alex | Assess Data for Errors | ● |
| | | | | | |
| Initial Model Development | 2/5/26 | 2/19/26 | | | ● |
| Data Verification for Initital Model | 2/5/26 | 2/5/26 | Todd | Approved data for initial code | ● |
| Write Mathematical Model | 2/6/26 | 2/8/26 | | | ● |
| Develop OBJ Function | 2/6/26 | 2/6/26 | Alex, Nolan | | ● |
| Develop Constraints | 2/7/26 | 2/7/26 | Alex, Nolan | | ● |
| Identify All Variables | 2/8/26 | 2/8/26 | Alex, Nolan | Written mathematical model | ● |
| Initial Code Development | 2/9/26 | 2/16/26 | | | ● |
| Confirm Software Choice | 2/9/26 | 2/9/26 | Ben, Nolan | | ● |
| Initialize Data | 2/10/26 | 2/10/26 | Ben, Nolan | | ● |
| Write OBJ Function | 2/11/26 | 2/11/26 | Ben, Nolan | | ● |

## Tasks

| Name | Begin date | End date | Resources | Deliverables | |
|---|---|---|---|---|---|
| Format Constraints | 2/12/26 | 2/12/26 | Ben, Nolan | Core code base | ● |
| Trial Runs | 2/13/26 | 2/14/26 | Ben, Nolan | | ● |
| Output Analysis | 2/15/26 | 2/16/26 | Ben, Nolan | Initial optimisation output | ● |
| Application of Code to Broader Data | 2/17/26 | 2/19/26 | | | ● |
| Trial Runs | 2/17/26 | 2/17/26 | Ben, Nolan | | ● |
| Iterative Application | 2/18/26 | 2/18/26 | Ben, Nolan | | ● |
| Analysis and Improvements | 2/19/26 | 2/19/26 | Todd, Alex | Larger dataset optimisation output | ● |
| Mid Project Report Development | 2/20/26 | 2/26/26 | | | ● |
| Write Report on Current Progress | 2/20/26 | 2/24/26 | Todd | | ● |
| Update Project Plan | 2/25/26 | 2/26/26 | Todd | | ● |
| Mid Project Report & Revised Project Plan Submission | 2/27/26 | 2/27/26 | Todd, Ben, Alex, Nolan | Project status report and revised plan | ● |
| Goal Completion | 2/27/26 | 3/11/26 | | | ● |
| Focused Application of Results to Questions | 2/27/26 | 3/3/26 | Nolan | | ● |
| Adustments to Refine Questions/Answers | 3/4/26 | 3/8/26 | Ben, Alex | | ● |
| Begin Recommendation Alignment | 3/9/26 | 3/11/26 | Todd | Written draft recommendations | ● |
| Final Project Report Development | 3/12/26 | 3/25/26 | | | ● |
| Compile Final Results and Recommendations | 3/12/26 | 3/15/26 | Todd, Ben, Alex, Nolan | | ● |
| Write Report | 3/16/26 | 3/25/26 | Todd, Ben, Alex, Nolan | Final report | ● |
| Build Presentation | 3/12/26 | 3/25/26 | Todd | | ● |
| Submit Report | 3/26/26 | 3/26/26 | Todd, Ben, Alex, Nolan | Written final report | ● |
| Final Presentation | 3/26/26 | 3/30/26 | | | ● |
| Presentation Rehearsals | 3/26/26 | 3/30/26 | Todd, Ben, Alex, Nolan | | ● |
| Present Final | 3/31/26 | 3/31/26 | Todd, Ben, Alex, Nolan | Final presentation deck | ● |

## Resources

| Name | Default role |
| --- | --- |
| Todd | project manager |
| Ben | undefined |
| Alex | undefined |
| Nolan | undefined |

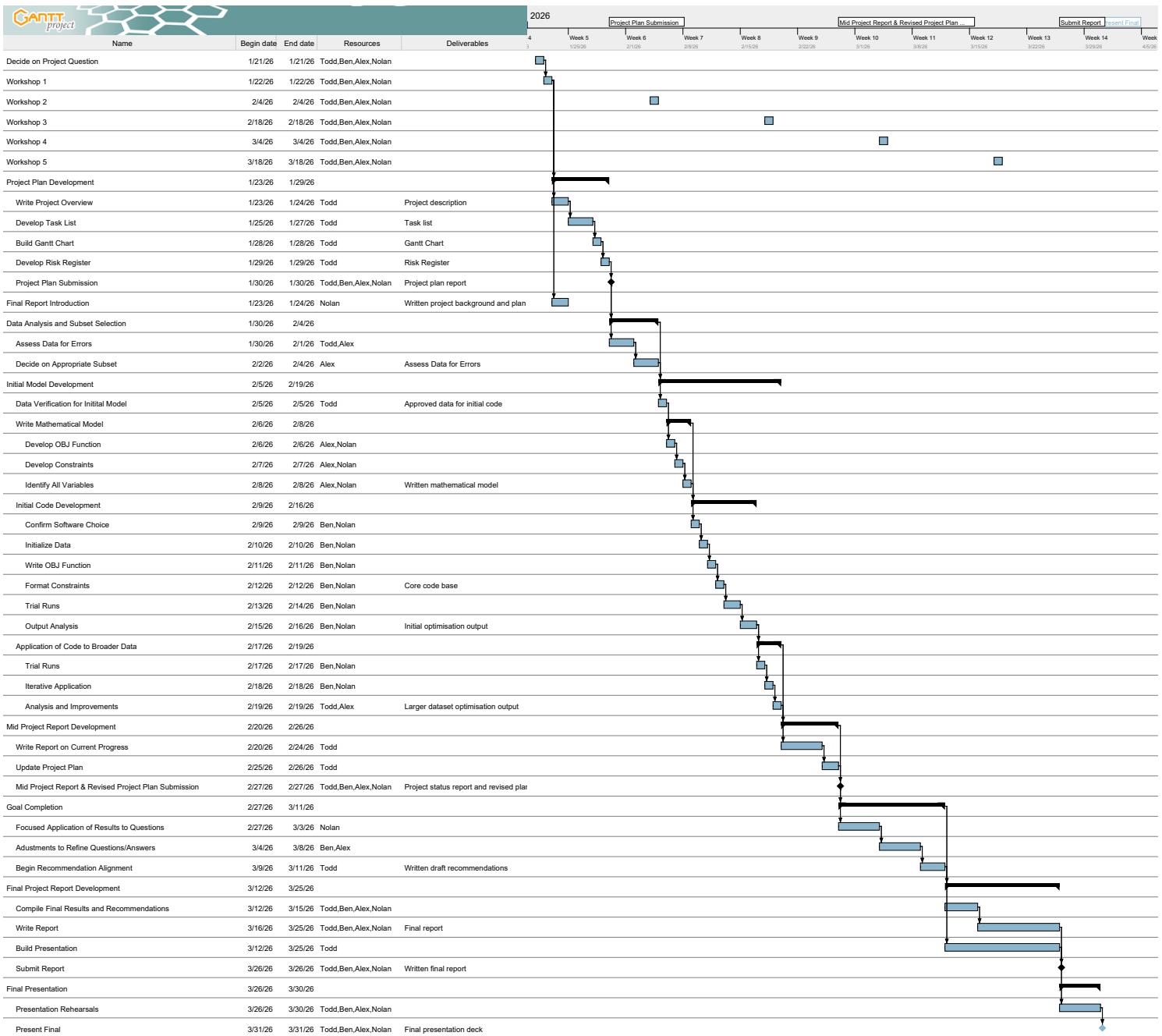| Name | Begin date | End date | Resources | Deliverables |
|---|---|---|---|---|
| Decide on Project Question | 1/21/26 | 1/21/26 | Todd,Ben,Alex,Nolan | |
| Workshop 1 | 1/22/26 | 1/22/26 | Todd,Ben,Alex,Nolan | |
| Workshop 2 | 2/4/26 | 2/4/26 | Todd,Ben,Alex,Nolan | |
| Workshop 3 | 2/18/26 | 2/18/26 | Todd,Ben,Alex,Nolan | |
| Workshop 4 | 3/4/26 | 3/4/26 | Todd,Ben,Alex,Nolan | |
| Workshop 5 | 3/18/26 | 3/18/26 | Todd,Ben,Alex,Nolan | |
| Project Plan Development | 1/23/26 | 1/29/26 | | |
| Write Project Overview | 1/23/26 | 1/24/26 | Todd | Project description |
| Develop Task List | 1/25/26 | 1/27/26 | Todd | Task list |
| Build Gantt Chart | 1/28/26 | 1/28/26 | Todd | Gantt Chart |
| Develop Risk Register | 1/29/26 | 1/29/26 | Todd | Risk Register |
| Project Plan Submission | 1/30/26 | 1/30/26 | Todd,Ben,Alex,Nolan | Project plan report |
| Final Report Introduction | 1/23/26 | 1/24/26 | Nolan | Written project background and plan |
| Data Analysis and Subset Selection | 1/30/26 | 2/4/26 | | |
| Assess Data for Errors | 1/30/26 | 2/1/26 | Todd,Alex | |
| Decide on Appropriate Subset | 2/2/26 | 2/4/26 | Alex | Assess Data for Errors |
| Initial Model Development | 2/5/26 | 2/19/26 | | |
| Data Verification for Initital Model | 2/5/26 | 2/5/26 | Todd | Approved data for initial code |
| Write Mathematical Model | 2/6/26 | 2/8/26 | | |
| Develop OBJ Function | 2/6/26 | 2/6/26 | Alex,Nolan | |
| Develop Constraints | 2/7/26 | 2/7/26 | Alex,Nolan | |
| Identify All Variables | 2/8/26 | 2/8/26 | Alex,Nolan | Written mathematical model |
| Initial Code Development | 2/9/26 | 2/16/26 | | |
| Confirm Software Choice | 2/9/26 | 2/9/26 | Ben,Nolan | |
| Initialize Data | 2/10/26 | 2/10/26 | Ben,Nolan | |
| Write OBJ Function | 2/11/26 | 2/11/26 | Ben,Nolan | |
| Format Constraints | 2/12/26 | 2/12/26 | Ben,Nolan | Core code base |
| Trial Runs | 2/13/26 | 2/14/26 | Ben,Nolan | |
| Output Analysis | 2/15/26 | 2/16/26 | Ben,Nolan | Initial optimisation output |
| Application of Code to Broader Data | 2/17/26 | 2/19/26 | | |
| Trial Runs | 2/17/26 | 2/17/26 | Ben,Nolan | |
| Iterative Application | 2/18/26 | 2/18/26 | Ben,Nolan | |
| Analysis and Improvements | 2/19/26 | 2/19/26 | Todd,Alex | Larger dataset optimisation output |
| Mid Project Report Development | 2/20/26 | 2/26/26 | | |
| Write Report on Current Progress | 2/20/26 | 2/24/26 | Todd | |
| Update Project Plan | 2/25/26 | 2/26/26 | Todd | |
| Mid Project Report & Revised Project Plan Submission | 2/27/26 | 2/27/26 | Todd,Ben,Alex,Nolan | Project status report and revised plan |
| Goal Completion | 2/27/26 | 3/11/26 | | |
| Focused Application of Results to Questions | 2/27/26 | 3/3/26 | Nolan | |
| Adustments to Refine Questions/Answers | 3/4/26 | 3/8/26 | Ben,Alex | |
| Begin Recommendation Alignment | 3/9/26 | 3/11/26 | Todd | Written draft recommendations |
| Final Project Report Development | 3/12/26 | 3/25/26 | | |
| Compile Final Results and Recommendations | 3/12/26 | 3/15/26 | Todd,Ben,Alex,Nolan | |
| Write Report | 3/16/26 | 3/25/26 | Todd,Ben,Alex,Nolan | Final report |
| Build Presentation | 3/12/26 | 3/25/26 | Todd | |
| Submit Report | 3/26/26 | 3/26/26 | Todd,Ben,Alex,Nolan | Written final report |
| Final Presentation | 3/26/26 | 3/30/26 | | |
| Presentation Rehearsals | 3/26/26 | 3/30/26 | Todd,Ben,Alex,Nolan | |
| Present Final | 3/31/26 | 3/31/26 | Todd,Ben,Alex,Nolan | Final presentation deck |

| Name | Default role |
|---|---|
| **Todd** | project ma... |
| Decide on Project Ques... | |
| Workshop 1 | |
| Workshop 2 | |
| Workshop 3 | |
| Workshop 4 | |
| Workshop 5 | |
| Present Final | |
| Mid Project Report & R... | |
| Data Verification for Initi... | |
| Build Presentation | |
| Presentation Rehearsals | |
| Write Project Overview | |
| Develop Risk Register | |
| Write Report on Current... | |
| Assess Data for Errors | |
| Submit Report | |
| Update Project Plan | |
| Compile Final Results ... | |
| Write Report | |
| Develop Task List | |
| Project Plan Submission | |
| Begin Recommendatio... | |
| Build Gantt Chart | |
| Analysis and Improvem... | |
| **Ben** | undefined |
| Decide on Project Ques... | |
| Workshop 2 | |
| Workshop 3 | |
| Workshop 4 | |
| Workshop 5 | |
| Present Final | |
| Write OBJ Function | |
| Workshop 1 | |
| Trial Runs | |
| Mid Project Report & R... | |
| Confirm Software Choice | |
| Presentation Rehearsals | |
| Adustments to Refine Q... | |
| Submit Report | |
| Initialize Data | |
| Trial Runs | |
| Compile Final Results ... | |
| Write Report | |
| Format Constraints | |
| Project Plan Submission | |
| Output Analysis | |
| Iterative Application | |
| **Alex** | undefined |
| Decide on Project Ques... | |
| Workshop 1 | |
| Workshop 2 | |
| Workshop 3 | |
| Workshop 4 | |
| Workshop 5 | |
| Present Final | |
| Mid Project Report & R... | |
| Develop Constraints | |
| Presentation Rehearsals | |
| Assess Data for Errors | |
| Identify All Variables | |
| Adustments to Refine Q... | |
| Submit Report | |
| Develop OBJ Function | |
| Compile Final Results ... | |
| Write Report | |
| Project Plan Submission | |
| Decide on Appropriate ... | |
| Analysis and Improvem... | |
| **Nolan** | undefined |
| Decide on Project Ques... | |
| Workshop 1 | |
| Workshop 2 | |
| Workshop 3 | |
| Workshop 4 | |
| Workshop 5 | |
| Present Final | |
| Write OBJ Function | |
| Focused Application of ... | |
| Trial Runs | |
| Mid Project Report & R... | |
| Confirm Software Choice | |
| Final Report Introduction | |
| Develop Constraints | |
| Presentation Rehearsals | |
| Identify All Variables | |
| Submit Report | |
| Initialize Data | |
| Trial Runs | |
| Develop OBJ Function | |
| Compile Final Results ... | |
| Write Report | |
| Format Constraints | |
| Project Plan Submission | |
| Output Analysis | |
| Iterative Application | |

2026 — Week 5, Week 6, Week 7, Week 8, Week 9, Week 10, Week 11, Week 12, Week 13, Week 14, Week 1...

Project Plan Submission · Mid Project Report & Revised Project Plan · Submit Report · Present Final

200% 200% 200%