STAT 6021: Group Expectations Agreement for Project 1

Group 15, Group Members:
Maryam Ali
Robert Judson Ashby
Angelo Orciuoli
Molly Shand

Creating and Maintaining a Positive Working Environment

To foster a productive and respectful group dynamic, we commit to the following principles:

Openness to Ideas: We will encourage all members to share their ideas and perspectives while actively listening to others.

Collaborative Mindset: We recognize that we are working together, not competing. We will support each other in completing our assigned tasks.

Respect and Consideration: We will treat each other with respect and professionalism in all communications and interactions.

Accountability: Each member is responsible for completing their assigned tasks on time and communicating any challenges they face.

Constructive Feedback: We will provide feedback that focuses on improving the project rather than criticizing individuals.

Group Processes

1. Mode of Communication:
   Primary communication will take place via Teams Chat, or Email.

   Urgent matters will be addressed via text messages or phone calls if necessary.

   All members should aim to respond within 48 hours.

2. Scheduling Meetings

   Meetings will be scheduled via Teams Chat.

   Regular check-ins will occur biweekly and as needed to ensure project progress.

   Meetings will be held via Zoom or Microsoft Teams depending on availability.

3. Conducting Meetings

   Meetings will have a clear agenda shared at least 24 hours in advance.

   Each meeting will have a facilitator (rotating role) to keep discussions on track.

   Key discussion points and decisions will be documented in a shared document for reference.

4. Assigning Tasks

Tasks will be divided based on strengths, preferences, and fair workload distribution.

Each member will have clear deliverables and deadlines documented in a shared file Google Docs.

Members must communicate any difficulties as soon as possible so adjustments can be made.

5. Handling Disagreements

Disagreements will be discussed openly, focusing on the idea rather than the individual.

If a consensus cannot be reached, decisions will be made by majority vote.

If further resolution is needed, we will consult the instructor for guidance.

6. Accountability & Handling Issues

If a member struggles to complete a task, they should notify the group immediately.

If a member consistently fails to contribute, the group will first address the issue collectively.

If issues persist, the matter will be escalated to the instructor.

The following students agree to complete STAT 6021 Project 1 as outlined in this document.

Group 15, Group Members:
Maryam Ali
Robert Judson Ashby
Angelo Orciuoli
Molly Shand

Appendix A: Deliverables & Deadlines
Appendix B: Major Tasks & Descriptions
Appendix C: Task Assignments

Appendix A: Deliverables & Deadlines

Group Expectations Agreement – February 26

Initial Data Exploration & Visualizations – March 3

Simple Linear Regression Model Development – March 7

Draft Report & R Code Submission – March 10

Peer Review & Report Finalization – March 14

Final Report & R Code Submission – March 16

Appendix B: Major Tasks & Descriptions

Group Expectations Agreement (Due Feb 26)

 Draft and finalize group agreement.

Data Exploration & Visualizations (Due Mar 3)

 Summarize dataset variables (carat, clarity, color, cut, price).

 Create univariate, bivariate, and multivariate visualizations.

 Address claims made on the Blue Nile diamond education page.

 Provide commentary on the visualizations.

Simple Linear Regression Model (Due Mar 7)

 Fit an appropriate SLR model for price vs. carat.

 Check SLR assumptions and perform any necessary transformations.

 Provide contextual commentary on findings.

Draft Report & R Code Submission (Due Mar 10)

 Write the report including:

 Summary of findings (high-level results for a general audience).

 Data and variable descriptions.

 Data visualization insights.

 Regression analysis and interpretation.

 Ensure code is properly commented and reproducible.

Peer Review & Final Edits (Due Mar 14)

 Review team members' contributions.

 Refine explanations, grammar, and report structure.

 Verify consistency in formatting and labeling.

Final Submission of Report & R Code (Due Mar 20)

 Submit final .pdf or .html report.

 Submit finalized R script (.R or .Rmd file).

Appendix C: Task Assignments

Group Expectations Agreement Submission – Maryam Ali, editing by Robert Judson Ashby, with review by All members

Data Exploration & Visualizations

Dataset Summary – Maryam Ali & Robert Judson Ashby

Univariate & Bivariate Visualizations – Molly Shand & Angelo Orciuoli

Multivariate Visualizations & Commentary – Angelo Orciuoli & Robert Judson Ashby

Simple Linear Regression Model

Model Fitting & Assumption Checks – Robert Judson Ashby & Molly Shand

Interpretation & Contextual Commentary – Maryam Ali & Angelo Orciuoli

Report Writing

Summary of Findings – Robert Judson Ashby & Molly Shand

Data & Variable Descriptions – Maryam Ali & Robert Judson Ashby

Data Visualization Insights – Molly Shand & Maryam Ali

Regression Analysis & Interpretation – Angelo Orciuoli & Maryam Ali

Code Review & Formatting – All members

Peer Review & Final Edits – All members

Final Submission – Maryam Ali, with review by All members