

Team Contract

Team Name: Group 2

GOALS: What are our team goals for this project?

What do we want to accomplish? What skills do we want to develop or refine?

Objectives: Apply classical machine learning techniques (regression & clustering) to Airbnb data in order to predict pricing, identify demand trends, and segment customers for strategic business insights.

What We Want to Accomplish: Deliver a clear, analytical report (1,000 words) supported by visualisations, demonstrating practical applications of machine learning to Airbnb's business model. Ensure results are relevant to Airbnb's strategic decision-making.

Skills to Develop/Refine: Advance our knowledge in data preprocessing, regression analysis, clustering techniques, data visualisation (Matplotlib, Seaborn, Plotly), Python libraries (scikit-learn, pandas, NumPy), teamwork, project management, and professional report writing.

EXPECTATIONS: What do we expect of one another in regard to attendance at meetings, participation, frequency of communication, the quality of work, etc.?

Attendance: Be present and punctual for all scheduled meetings.

Participation: Actively contribute with ideas, analysis, and constructive feedback.

Communication: Maintain open, clear, and frequent communication through agreed channels. Respond promptly to updates.

Quality of Work: Deliver accurate, well-documented, and timely outputs.

Collaboration: Provide support to team members when needed, work respectfully, and resolve conflicts collaboratively.

Deadlines: Adhere strictly to all internal milestones and the final deadline (Monday, 8 September 2025, 11:55 PM).

POLICIES & PROCEDURES: What rules can we agree on to help us meet our goals and expectations, such as preparatory tasks, generating ideas, evaluating outcomes?

Preparatory Tasks: Review relevant data, literature, and previous discussions before meetings.

Idea Generation: Encourage all contributions, document every idea, and ensure a judgment-free brainstorming environment.

Decision Making: Use consensus as the first option; if not possible, decisions will be made by majority vote.

Evaluation: Regularly review progress against goals, report quality, and alignment with grading criteria

Documentation: Keep records of meetings, assigned tasks, deadlines, and key decisions.

Accountability: Every member owns their assigned responsibilities and ensures timely delivery of tasks.

ROLES: Which roles do we need in this project and how do we allocate them? Will there be a project lead? Is there a need to rotate roles?

Project Lead: Mariam Almarzooqi / Prepares the team contract, supports exploratory data analysis, and ensures the project timeline and deliverables remain on track.

Exploratory Analysis Lead: Nasir Albannai / Explores the dataset to identify key columns or combinations of columns that contribute to Airbnb listing prices.

Presentation & Submission Lead: Bayr Harrison / Compiles all team inputs into the presentation, ensures cohesion, submits the final deliverables on time and exploratory analysis and cleaning.

Data and Documentation Lead: Yousif Ali Karam / Prepares a document explaining the dataset columns, their meaning, and relevant background information.

Exploratory Analysis Lead: Fatima Mohammed / Explores the dataset to identify key columns or combinations of columns that contribute to Airbnb listing prices.

Rotation: Roles can rotate if necessary to ensure all members develop new skills.

CONSEQUENCES: How will we address non-performance regarding these goals, expectations, policies and procedures? How do we resolve disagreements?

Non-Performance:

Step 1: Address concerns privately with the team member to understand challenges.

Step 2: If unresolved, raise it in the group to redistribute tasks or adjust workload.

Step 3: Escalate persistent issues to the course instructor.

Disagreements:

- Discuss openly, allowing everyone to voice their perspective.
- If no consensus is reached, use majority voting while respecting minority opinions.

By signing this contract, we confirm that:

- We have collectively formulated these goals, expectations, roles, procedures, and consequences.
- We agree to abide by the contents of this contract.

Mariam

Mariam Almarzooqi, 03-09-2025



Nasir Albannai, 03-09-2025



Bayr Harrison, 03-09-2025



Yousif Ali Karam, 03-09-2025

Fatima Mohammed, 03-09-2025