Assessment Guidelines

- **Duration**: 24 hours from the time of receipt.
- **Objective**: Statistically evaluate the provided dataset(s) and solve both problems using exploratory data analysis and logical reasoning.
- Sample output files have been added with the bare minimum information. However, we would like to see you tailor it professionally and add any other relevant details to enrich the context and information (Bonus points for that!)
- In case you are unclear about any part of the question, you can make logical assumptions (we will evaluate those as well). Do ensure to clearly document such assumptions in the code or text files expected from you.
- V Both problems are mandatory to attempt:
 - Problem 1 carries 70% weightage
 - Problem 2 carries 30% weightage
- 🧮 Passing Criteria:
 - Evaluation will consider both:
 - The accuracy of final outputs
 - The quality of supporting documentation (notebooks, reasoning, scripts)
- / Evaluation Includes:
 - Final mapping or analysis results
 - Thought process and justifications
 - Visualizations and statistical reasoning
 - Validation or correctness checks

Important Notes on Integrity

- Submissions will be passed through anti-plagiarism and LLM-generated content detection systems.
- Any indication of **copy-paste from AI tools or code reuse** without proper justification will result in automated **disqualification**.
- Your explanations must demonstrate clear original thinking and statistical analysis.

Submission Format

- Package your solutions for each problem in a folder named:

assessment_01/

assessment_02/

- Bundle both folders into a single ZIP file named:

solution_<college>_<underscore_separated_firstnames_of_team_members>.zip

Example:

solution_iitd_ravi_ayesha_neha.zip

Submission Deadline

Submit your final zip file via email having a title starting with *SOLUTION - _ and send it to:

dmr-intern-assessments@aptportfolio.com

Deadline: Before 9:00 AM on Monday (14/Jul/25)
A strict 15-minute grace period is allowed for any unanticipated network delays.

Tips

Ensure all code runs without error from a clean environment.

Late submissions beyond 9:15 AM will be disqualified.

- Include a README.md or short note for each assessment folder if helpful.
- Label your charts, plots, and outputs clearly.
- Good to have include a requirements.txt in case you are using a virtual environment in order for us to evaluate better.