Sadaora

ML Engineer Assessment

Title: *Intelligent Insight Engine   Rapid Build*

Scenario:

You're working with a lifestyle-tech platform (like Sadaora) that helps users make better career and life decisions based on behavioral and demographic data. Your goal is to quickly evaluate whether meaningful insights can be drawn from user data.

Assessment Objectives:

1. **Understand the Data**
2. **Build a Predictive or Insight-Generating Model**
3. **Communicate What Matters**

Tasks

1. Data Familiarity & Exploration

- Load and explore the dataset (can be any public dataset or one provided by you – e.g., UCI, Kaggle).
- Identify key trends and what the data might say about the user.

2. Build a Simple Model

- Choose a modeling goal: e.g., user segmentation, outcome prediction, or recommendation.
- Select and justify a model (logistic regression, decision trees, simple neural net, etc.).
- Train and validate (simple train/test split is fine).

3. Evaluate & Explain

- Use one or two performance metrics (e.g., accuracy, F1, ROC AUC).
- Explain the *why* behind your modeling choices.
- Summarize key insights (via comments, markdown, or a short PDF summary).

4. Final Thoughts

- B r i e f l y   d i s c u s s   h o w   y o u ' d   p r o d u c t i o n i z e   t h

Deliverables

- A single notebook (.ipynb) or .py file with markdown or comments.
- A one-paragraph summary of findings (in the notebook or separate PDF).
- A brief section about deployment strategy (1–2 paragraphs max).

Submission Process:

Deadline:
Please submit your completed assessment within **3 days** of receiving the assignment, unless otherwise agreed.

Format:
Submit the following in a shared folder (e.g., Google Drive, Dropbox, or GitHub link):

- A **Jupyter Notebook (.ipynb)** or a **Python script (.py)** containing your code.
- A **brief written summary** of your approach, findings, and any assumptions (this can be a PDF, Markdown file, or in-line in the notebook).
- A short paragraph on how you would **deploy or productionize** your solution.

Submission Link:
Send your materials to info@newblazr.com with the subject:
"ML Assessment   [Your Name]"

Evaluation Timeline:
We will review the submission asap and be in touch shortly.