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TDI Tech Summit Hackathon - Stage One Project Brief

1 message

info <info@tdimmersed.org>   Wed, Jun 18, 2025 at 11:01 AM
To: "idongesitusoro03@gmail.com" <idongesitusoro03@gmail.com>

Dear Idongesit,

Welcome to the First Stage of the TDI Tech Summit Hackathon! The dataset has been attached to the WhatsApp group description for your use. Below is the project brief, focusing on creating a full interactive dashboard for loan approval prediction, along with the evaluation criteria for this stage.

Project Brief: Loan Approval Prediction Report

- **Objective:** Develop a comprehensive, fully interactive dashboard to analyze and predict loan approval outcomes using the provided banking dataset. The dashboard should allow users to explore key factors influencing loan approvals, visualize historical trends, and provide predictive insights to support decision-making. This is a full project designed to assist banking institution management in optimizing loan approval processes.
- **Dataset:** Access the dataset attached to the WhatsApp group description, which includes 5,000 records with diverse fields related to customers, transactions, loans, and more.
- **Deliverables:**
  - A fully functional, interactive dashboard created using a tool of your choice. The dashboard must include multiple interactive elements enable in-depth exploration of loan data and predictions.
  - A full documentation/report (max 1,000 words) detailing your entire data process, including data exploration techniques, preprocessing steps, feature selection or engineering, the analytical methods used for prediction, assumptions made, and a clear explanation of how the dashboard delivers actionable insights for loan approval decisions.
- **Deadline:** Submit your dashboard and full documentation/report by 3:00 PM WAT on June 30, 2025.
- **Guidelines:**
  - Design a dashboard with interactive features to allow users to customize their analysis of loan approval data.
  - Ensure the dashboard is intuitive, with clear labels, a logical layout, and real-time responsiveness to user inputs.
  - Provide a thorough report covering all data processes, from initial exploration to final implementation, with supporting visuals or code snippets where applicable.
  - Submit as a team, with only one team member filling the submission form, which will be released soon via the WhatsApp group.
- **Evaluation Criteria for Stage One (Finance):**
  - **Data Exploration (30%):** Judges will assess your understanding of the dataset, including variables, structure, and limitations. They'll look for effective data cleaning and the use of exploratory techniques like summary statistics, correlation matrices, or visualizations to identify patterns relevant to loan approvals.
  - **Analytical Techniques (30%):** Judges will evaluate the appropriateness of methods for predicting loan approvals, the complexity and innovation of techniques, clear documentation, and the interpretability of results.
  - **Insights and Impact (25%):** Judges will look for actionable insights or predictive trends that could influence loan approval decisions, focusing on practical impact, alignment with the Finance theme, and feasibility of implementation.
  - **Visualization and Storytelling (10%):** Judges will review the clarity and appeal of your dashboard, the effectiveness of your narrative in connecting data to the problem, and the use of appropriate tools for professional-quality visuals accessible to diverse audiences.
  - **Creativity and Innovation (5%):** Judges will reward unique approaches, unconventional methods, or creative problem-solving in your dashboard or analysis.

  Scores will be assigned on a 1–10 scale per criterion, weighted as above, for a total out of 10.
- **Resources:** Use any tool or programming language. No additional datasets or APIs are allowed unless pre-approved.

Good luck, and happy hacking!