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**Description:**

This project aims to identify the key attributes that correlate with high academic performance, particularly in terms of exam scores.

**Objective/Purpose:**

* What is the main goal of the analysis?
  + By analyzing various factors, we hope to uncover insights that can enhance educational strategies and support student success.
* What business or real-world problem are you trying to solve?
  + Time management
* How would the results of this analysis impact decision-making?

The result of this analysis will provide insights for educators, administrators, and students. By identifying effective time management strategies and other correlating attributes, decision-makers can develop targeted strategies and resources.

**Context and Situation:**

* In what industry, business setting, or organization would this analysis be useful?

Schools & Universities

* What is the potential use case for this analysis? (e.g., predicting customer churn, forecasting sales, optimizing inventory)

Predicting academic success.

* How will the insights from this analysis help solve a real-world problem?

By pinpointing the specific factors that correlate with high academic performance—such as study habits, extracurricular commitments, or time allocation—educators and students can focus on what truly matters.

**Tools and Techniques:**

* What tools or software (Excel, R, Python, etc.) will you use to complete the analysis?
  + Python and Tableau.
* What type of data will you use, and where will it come from?

Student Performance factors dataset from Kaggle.

* Which machine learning or statistical techniques will you use? (e.g. predictive modeling, regression analysis)
  + Predictive modeling

**Data and Methodology:**

* What type of dataset are you using? (Include details like size, type, and source)
  + Structured dataset; csv, 642 kb, excel file.
* How will you preprocess or clean the data to ensure high-quality results?

-Ensuring correct data type, converting data types as needed.

* What steps will you take to ensure the analysis is robust and replicable?
  + Creating a detailed project plan outlining objectives, methodologies, and timelines.

**Expected Outcome:**

* What are the expected results or insights?
  + Clear identification of which attributes significantly correlates with high academic performance. Specific time management techniques that are linked to better academic outcomes.
* How will these results be presented? (e.g. visualizations, powerpoint, dashboard)

Powerpoint with visualizations.

* How will the results be beneficial for the end user? (e.g. stakeholders, customers, organization)
  + Students will benefit from tailored recommendations and resources that help them improve their time management and study skills, leading to better academic performance.