

## Project Proposal Template - (Project Title)

### Description:

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

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### 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.
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### 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.
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### 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
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### **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.
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### **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.