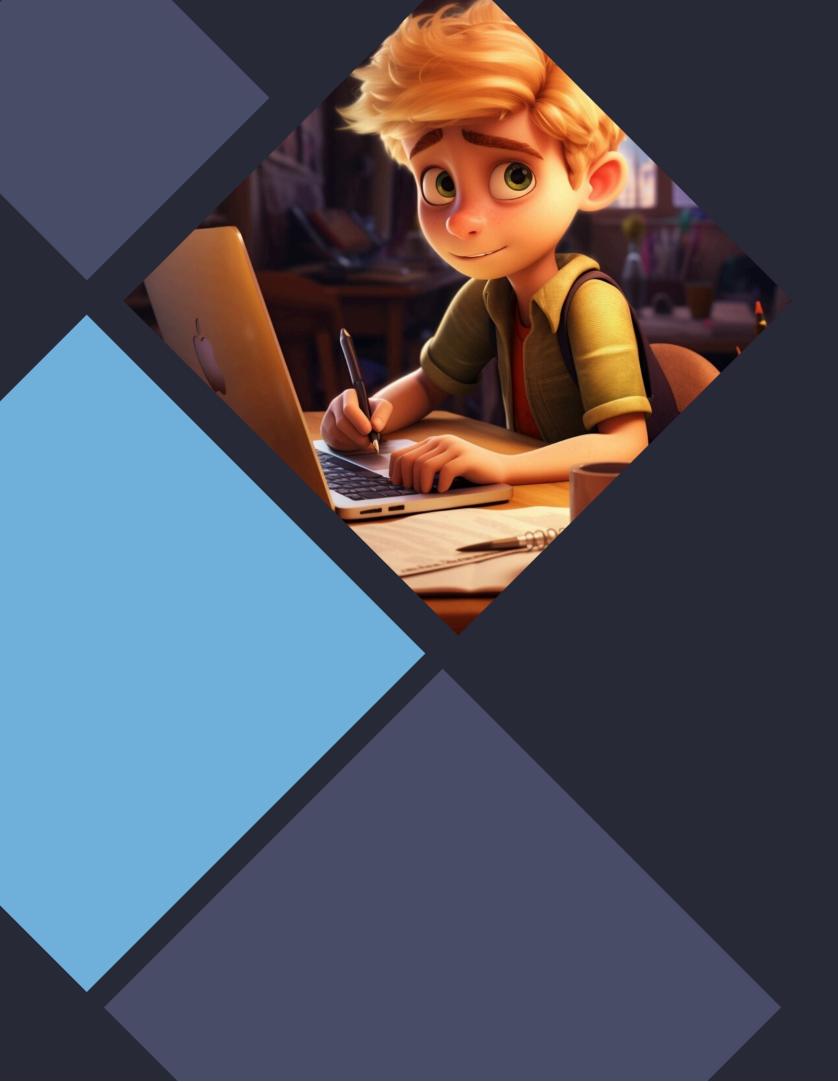
Predicting Student Grades with machine learning





Introduction

This presentation explores **predicting student grades** using Python. We will discuss the **impact of academic success** and the potential of Python in **educational analytics**.

Academic Success Factors

Understanding the **key factors** influencing student grades is crucial. We will analyze the **correlation between attendance, study time,** and grades using Python.





Data Collection and Preprocessing

preprocessing are essential for accurate predictions. We will explore techniques for gathering and cleaning academic data with Python.

Feature Engineering

Creating **relevant features** from academic data is vital. We will discuss **feature engineering techniques** to enhance the predictive power of our models.



Model Selection and Training

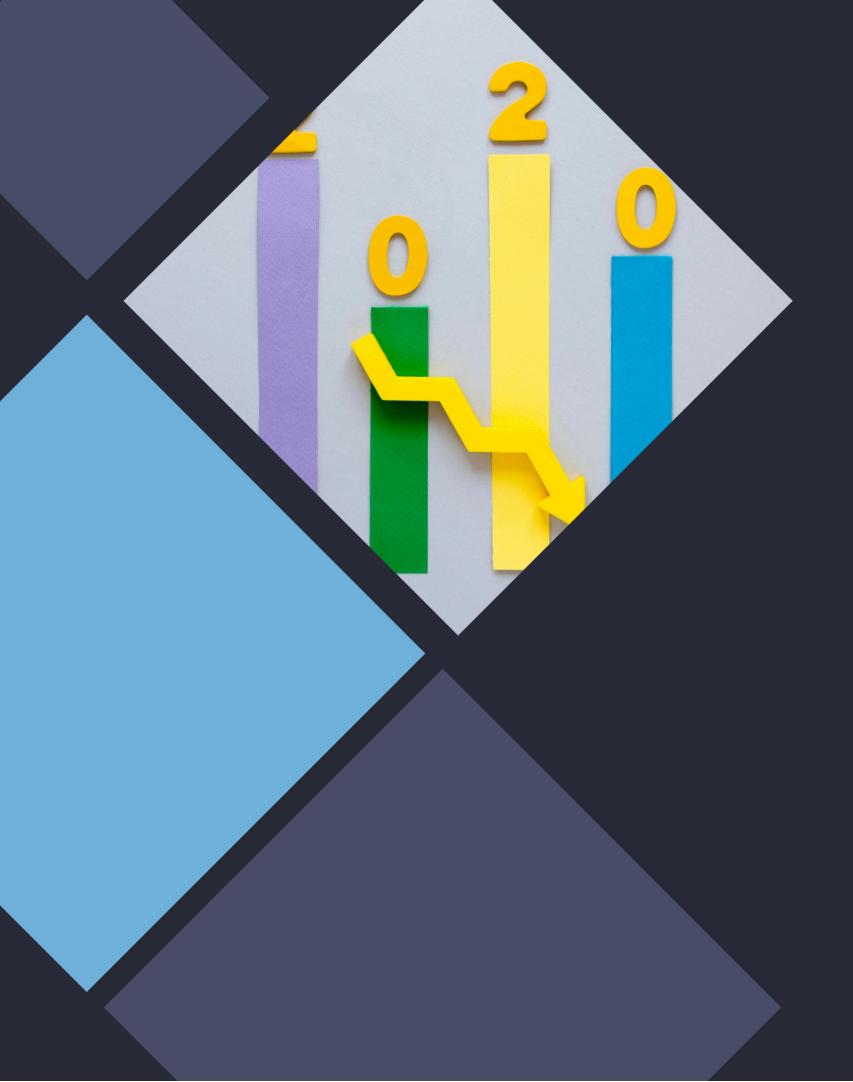
Selecting the appropriate model and training it effectively are critical. We will explore various machine learning algorithms and their application to student grade prediction.





Evaluation Metrics

Accurately evaluating model performance is essential. We will discuss **evaluation metrics** such as **RMSE**, **MAE**, **and R-squared** to assess the predictive power of our models.



Results and Interpretation

Interpreting the results and drawing meaningful conclusions is crucial. We will analyze the **predicted grades** and their **implications for academic success**.

Conclusion

In conclusion, Python offers powerful tools for predicting student grades and enhancing academic success. Leveraging educational analytics can lead to proactive interventions and improved learning outcomes.

Thanks!

