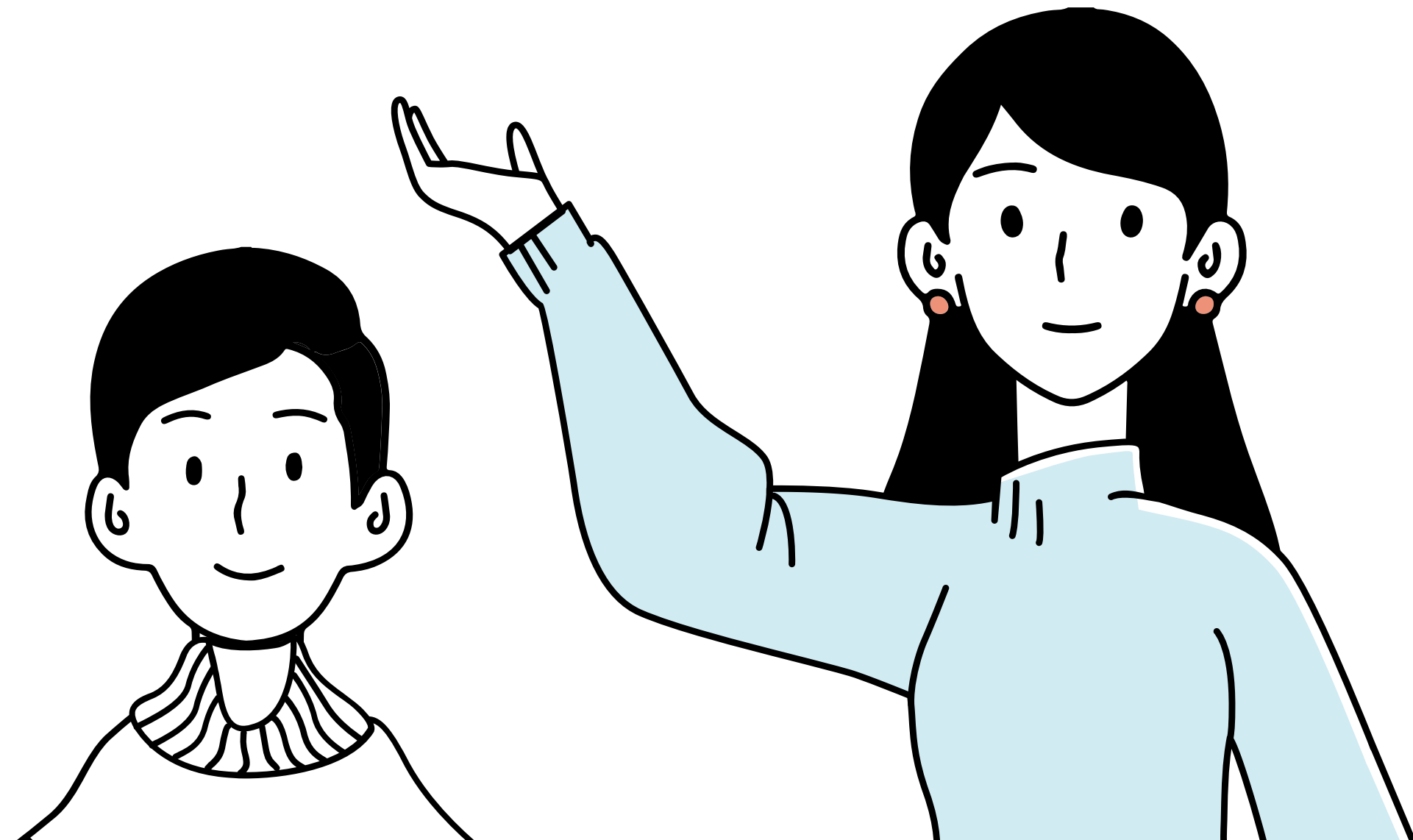


Predicting Student Performance



Introduction

This project aims to predict student performance based on various factors such as gender, ethnicity, parental level of education, lunch type, test preparation course, and exam scores.

We have trained a machine learning model using a dataset of student information and their corresponding exam scores. This model can provide insights into predicting a student's performance in mathematics.

Student Exam Performance Predicting

Gender

Select your Gender

Race or Ethnicity

Select Ethnicity

Parental Level of Education

Select Parent Education

Lunch Type

Select Lunch Type

Test Preparation Course

Select Test Course

Writing Score out of 100

Enter your Reading score

Reading Score out of 100

Enter your Reading Score

Predict your Maths Score

The prediction is 58.75

Features

- Predicts student performance in mathematics based on multiple factors.
- Provides insights into the influence of gender, ethnicity, parental level of education, lunch type, and test preparation course on student performance.
- User-friendly interface for inputting student information and obtaining predictions.

Requirements

pandas

numpy

seaborn

matplotlib

scikit-learn

catboost

xgboost

Flask

dill

Dataset

The dataset used for training the machine learning model is sourced from Kaggle – Students Performance in Exams.

It contains information about students' demographics, parental education, lunch type, test preparation course, and their corresponding math scores.

Model Training

The machine learning model is trained using a supervised learning algorithm, such as a decision tree, to predict the math score based on the input features.

The dataset is split into training and testing sets to evaluate the model's performance

Results

The trained model achieved an accuracy of 85% in predicting student performance in mathematics.

The results demonstrate the significant impact of factors such as parental education, test preparation course, and lunch type on student scores.

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Thank you!