



rubanizamkhan / Smart-Study-Time-Predictor

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rubanizamkhan Update README.md

aac40b5 · 1 hour ago

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SMART STUDY TIME PREDICTOR

A simple Machine Learning project that predicts the number of study hours required based on:

Number of chapters

Difficulty level

Your previous score

The project uses Linear Regression from scikit-learn and is designed for 1st-year B. Tech students.

FEATURES

Predicts how many hours you should study.

Taking 3 inputs:

- Chapters
- Difficulty Level (1–5)
- Past Score (%)

Produces a simple and easy-to-understand output.

Beginner-friendly code without any complex ML concepts

TECH STACK

- Python
- NumPy
- Scikit-learn (Linear regression)

INSTALLATION

- install : pip install numpy scikit-learn

HOW IT WORKS

1. A small sample dataset is created inside the program
2. A Linear Regression model is trained on the dataset
3. User enters :
 - chapters
 - difficulty
 - past score
4. Model predicts the study hours required

CODE

```
#SMART STUDY TIME PREDICTOR
#Using Linear Regression
import numpy as np
from sklearn.linear_model import LinearRegression

data=np.array([
    [5,3,60],
    [8,4,55],
    [3,2,80],
    [10,5,50],
    [7,4,65],
])
response=np.array([5,8,3,10,7])

model=LinearRegression()
model.fit(data,response)

print("\n-----")
print("SMART STUDY TIME PREDICTOR")
print("-----")

chapter=int(input("Enter number of chapters: "))
difficulty=int(input("Enter difficulty level (1-5): "))
past_score=int(input("Enter your previous score (%): "))

input=np.array([[chapter, difficulty, past_score]])

predicted_hour=model.predict(input)[0]

print("\n Suggested Study Time: ")
print(f"You should study approx: {predicted_hour:.2f} hours")

if predicted_hour<4:
```

```
print("You need moderate preparation")
elif predicted_hour<7:
    print("You need good preparation")
else:
    print("You need strong preparation. Stay consistent!")
```

OUTPUT

SMART STUDY TIME PREDICTOR



Enter number of chapters: 5
Enter difficulty level (1-5): 3
Enter your previous score (%): 87

Suggested Study Time:
You should study approx: 5.00 hours
You need good preparation