E-Studieses

Main Menu

- Modules
- Routine
- Coach

Settings

- Profile
- Settings

E-Studieses

Main Menu

- dashboard
- Modules
- Routine
- Coach

Settings

- Profile
- Settings

CODECRAFT

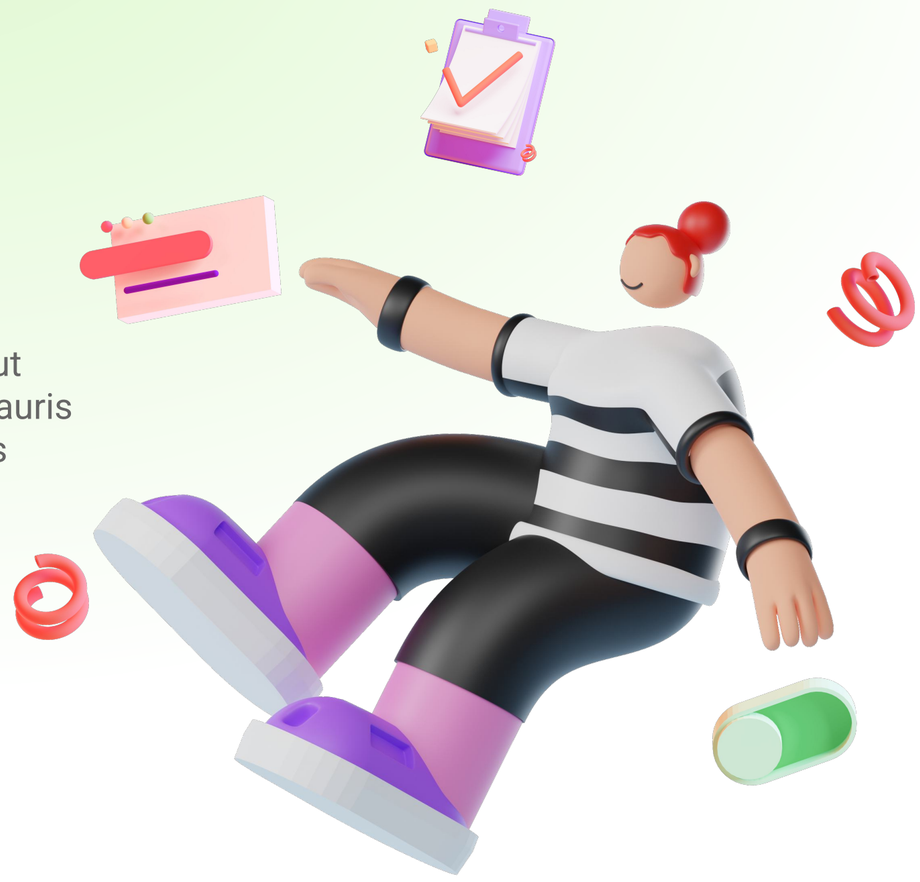
admin login

Data collection and integration

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Arcu diam ut condimentum lacinia. Sagittis, maecenas sed tristique dolor sed. Mauris nunc fames tincidunt id hac lacus, donec. Pellentesque amet cursus morbi enim fringilla mi pellentesque a lorem.

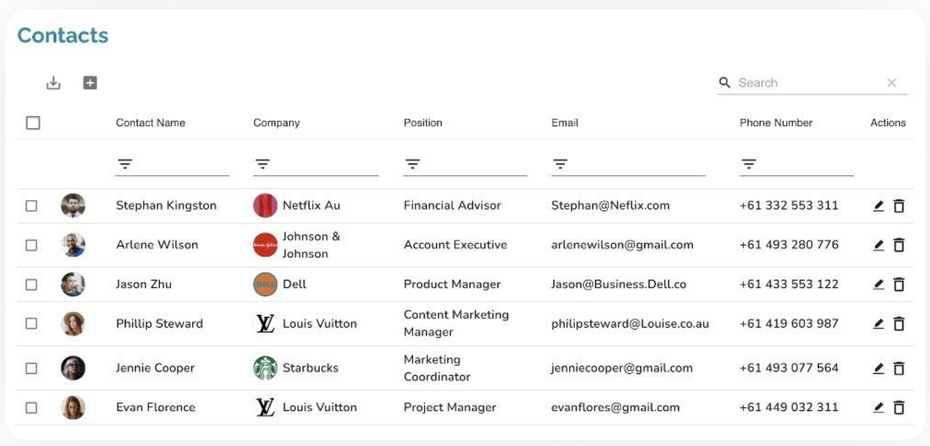
Start

Learn More



Function introduction

The following is

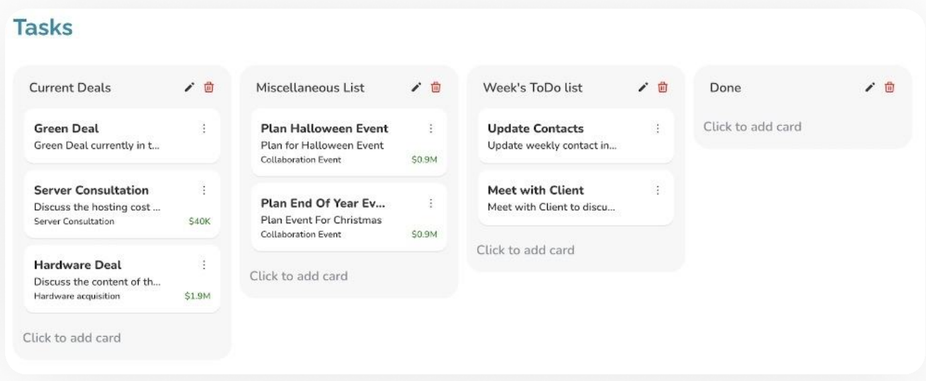


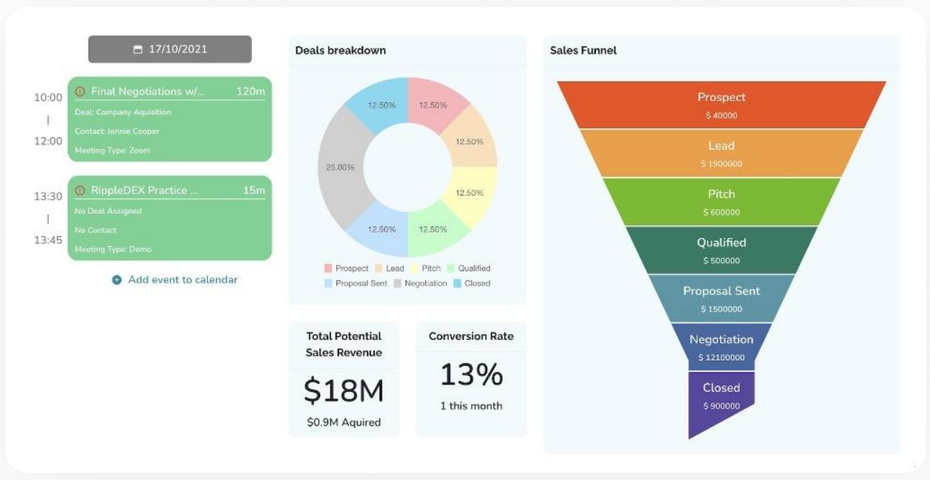
Simple way to manage your contacts

Background description of contacts usually involves the part of a system used to manage and maintain contact information between users or enterprises

This includes the types of tasks and how they are as

It is suitable for tasks with high real-time requirements and short time consuming, such as state saving and data compression. This type of task usually needs to be completed in a





Data collection and integrated storage and processing

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Arcu diam ut condimentum lacinia. Sagittis, maecenas sed tristique dolor sed. Mauris nunc fames tincidunt id hac lacus, donec.

Linear Regression

Woolworths Sales Data Analysis (Row and Column Indexing)

88%uncompleted

Linear Regression

McDonald’s Product Rating Data Cleaning (Handling Missing Data)

88%uncompleted

Linear Regression

Product Data Integration after Acquisition (Data Integration)

88%uncompleted

Linear Regression

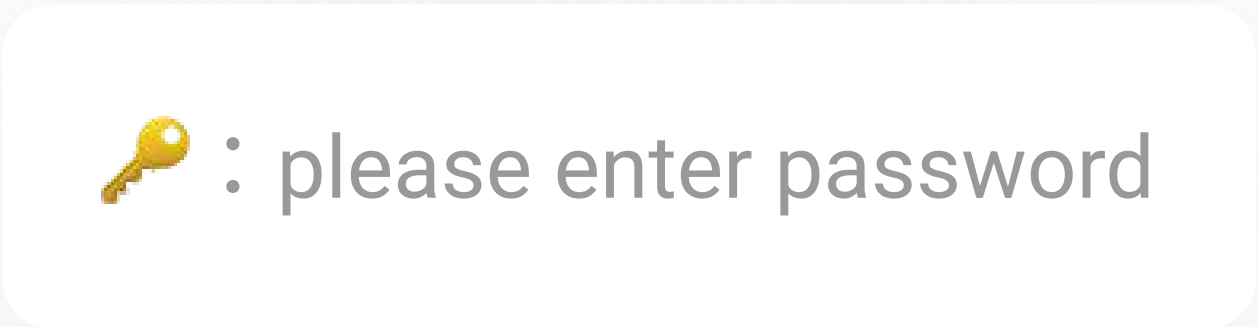
Obesity Survey Data Cleaning (Data Cleaning)

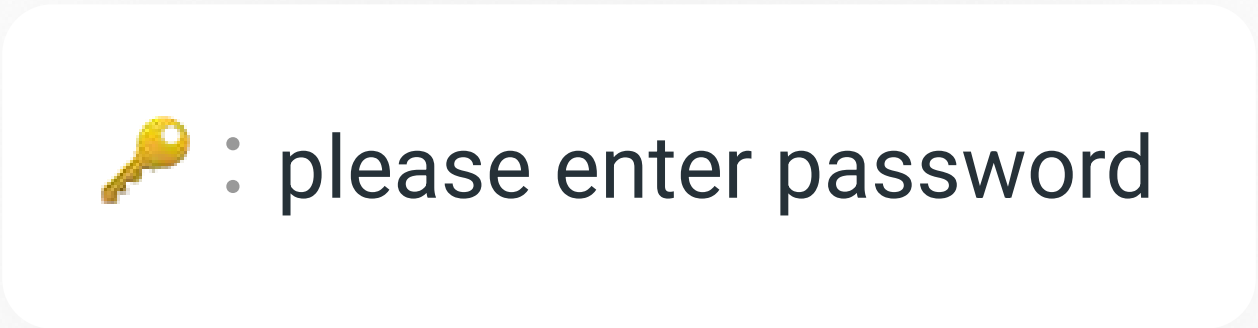
88%uncompleted

Linear Regression

Securities Company Financial Data Analysis (Exploratory Data Analysis - EDA)

88%uncompleted


🔑：please enter password


🔑 : please enter password

CODECRAFT

admin login

Parsons Problem - Interactive Coding Challenges

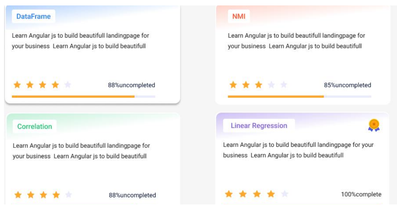
Welcome to CodeCraft, your go-to platform for mastering coding through engaging Parson's Problems! CodeCraft provides a simple and efficient way to practice and enhance your data-processing coding skills by reordering code snippets that are related to data-analysing challenges. Perfectly designed for Unimelb COMP20008 students and coordinators, Code Craft helps you build a strong foundation in coding while tracking your progress every step and every different aspect. Press 'Start' to dive into practicing and craft your path to coding success now!

Start

Learn More

Functions Introduction

- For All Users -

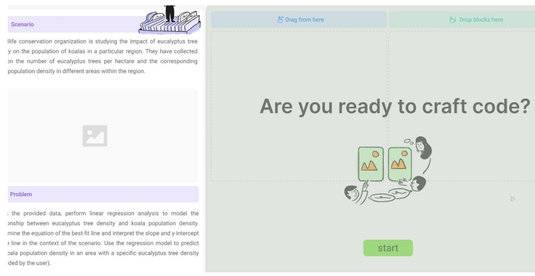


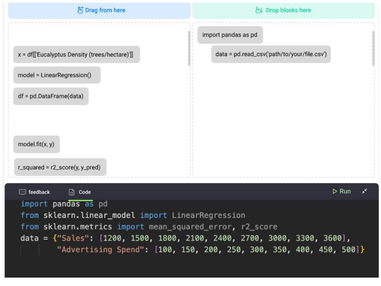
Discover an interesting way to take coding challenges

Choose a data-processing topic that interests you, and unlock a range of exciting, real-world contexts to explore and master!

Concise question page layout

- Drag and drop code snippets to reorder;
- Fold or expand questions; depending on your own favor
- Keep in mind that indentation always matters!



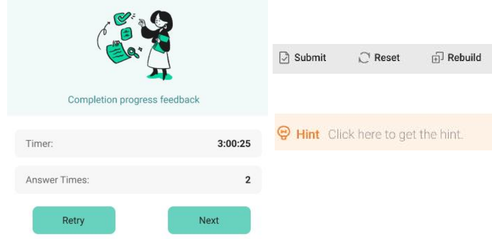


Immidiate IDE look and feedback

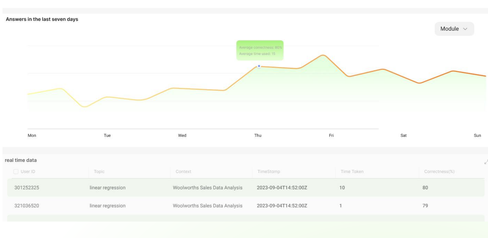
Connected to a Python Integrated Development Environment (IDE), CodeCraft gives you a real-time coding experience just like in a professional IDE. You'll receive instant, IDE-style feedback, helping you quickly spot errors —making it easier to learn and refine your skills as you go!

Powerful tools to improve your experience

- Submit: Click 'Submit' to receive feedback on the question, including duration, number of attempts and IDE-styled feedback.
- Reset: Click "Reset' to regenerate a question of the same topic and context.
- Rebuild: Click 'Rebuild' to revert all changes.
- Hint: Click 'Hint' to receive a clue of the code.



- For Administrator -



Log in to view statistical analysis on students' performance

Follow one-step login by clicking 'Admin Login' and entering password. It will get you into the dashboard containing all meaningful information for analyzing students' performance, including *User ID*, *Topic*, *Context*, *Time Stamp*, *Time Taken* and *Percentage of Correctness*.

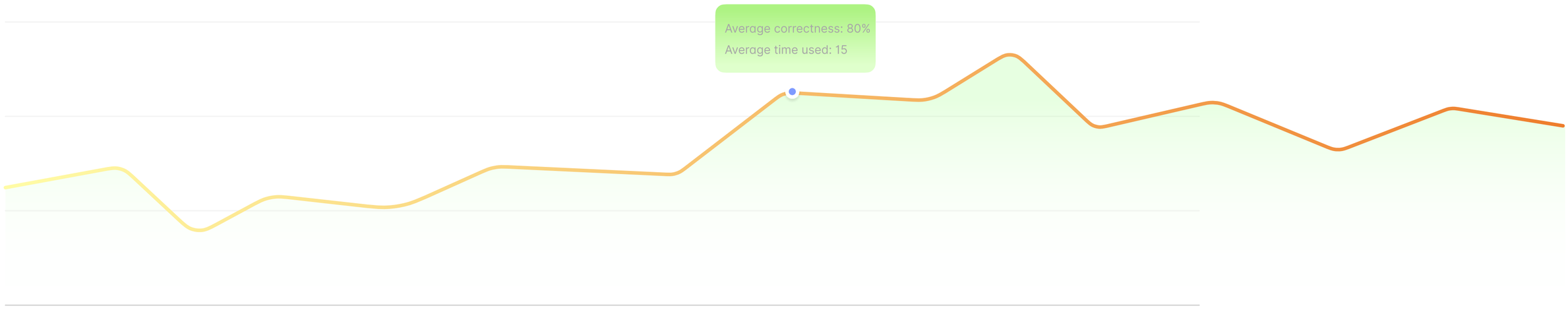
CODECRAFT

Module

Dashboard

Answers in the last seven days

Module



real time data

User ID	Topic	Context	TimeStamp	Time Taken	Correctness(%)
301252325	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	10	80
321036520	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	1	79
302458152	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	12	70
300025412	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	2	65
365201201	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	6	50
365201325	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	11	20

Linear Regression

Linear Regression

Linear Regression

Linear Regression

Linear Regression

Filter

User ID	Topic	Context	TimeStamp	Time Taken	Correctness(%)
301252325	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	10	80
321036520	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	1	79
302458152	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	12	70
300025412	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	2	65
365201201	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	6	50
365201325	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	11	20
301252325	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	10	80
321036520	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	1	79
302458152	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	12	70
300025412	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	2	65
365201201	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	6	50
365201325	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	11	20

Filter

User ID	Topic	Context	TimeStamp	Time Taken	Correctness(%)
301252325	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	10	80
321036520	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	1	79
302458152	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	12	70
300025412	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	2	65
365201201	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	6	50
365201325	linear regression	Woolworths Sales Data Analysis	2023-09-04T14:52:00Z	11	20

Sort By: All Categories

DataFrame

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

88%uncompleted

NMI

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

85%uncompleted

Sentence splitting using nltk

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

77% uncompleted

Correlation

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

88%uncompleted

Linear Regression

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

100%complete

Decision Tree Classifier

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

77% uncompleted

Reading/Writing CSV files

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

100%complete

Sort By: All Categories

Linear Regression

Woolworths Sales Data Analysis (Row and Column Indexing)

100%complete

Linear Regression

McDonald’s Product Rating Data Cleaning (Handling Missing Data)

88%uncompleted

Linear Regression

Product Data Integration after Acquisition (Data Integration)

88%uncompleted

Linear Regression

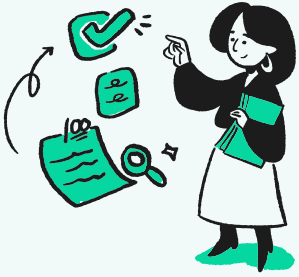
Obesity Survey Data Cleaning (Data Cleaning)

88%uncompleted

Linear Regression

Securities Company Financial Data Analysis (Exploratory Data Analysis - EDA)

88%uncompleted



Completion progress feedback

Timer: **3:00:25**

Answer Times: **2**

Retry

Next

CODECRAFT

Module

Sort By: All Categories

DataFrame

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

88%uncompleted

NMI

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

85%uncompleted

Sentence splitting using nltk

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

77% uncompleted

Correlation

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

88%uncompleted

Linear Regression

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

100%complete

Decision Tree Classifier

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

77% uncompleted

Reading/Writing CSV files

Learn Angular js to build beautifull landingpage for your business Learn Angular js to build beautifull

100%complete

Sort By: All Categories

Linear Regression

Woolworths Sales Data Analysis (Row and Column Indexing)

88%uncompleted

Linear Regression

McDonald’s Product Rating Data Cleaning (Handling Missing Data)

88%uncompleted

Linear Regression

Product Data Integration after Acquisition (Data Integration)

88%uncompleted

Linear Regression

Obesity Survey Data Cleaning (Data Cleaning)

88%uncompleted

Linear Regression

Securities Company Financial Data Analysis (Exploratory Data Analysis - EDA)

88%uncompleted

Thinking of an interesting problem...

..

CODECRAFT

Module | Context | Linear Algebra

Learn Algebra

Submit | Reset | Rebuild

Scenario

A wildlife conservation organization is studying the impact of eucalyptus tree density on the population of koalas in a particular region. They have collected data on the number of eucalyptus trees per hectare and the corresponding koala population density in different areas within the region.

Problem

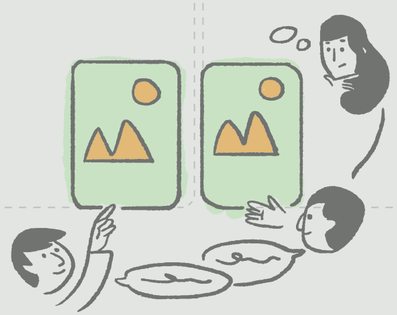
Using the provided data, perform linear regression analysis to model the relationship between eucalyptus tree density and koala population density. Determine the equation of the best-fit line and interpret the slope and y-intercept of the line in the context of the scenario. Use the regression model to predict the koala population density in an area with a specific eucalyptus tree density (provided by the user).

Hint Click here to get the hint.

Drag from here

Drop blocks here

Are you ready to craft code?



start

CODECRAFT

Module | Context | Linear Algebra

Learn Algebra

32 Hours : 43 Minutes : 23 Seconds

Show me problem | Submit | Reset | Rebuild

Drag from here

Drop blocks here

```
import pandas as pd
x = df[['Eucalyptus Density (trees/hectare)']]
model = LinearRegression()
df = pd.DataFrame(data)
data = pd.read_csv('path/to/your/file.csv')
model.fit(x, y)
r_squared = r2_score(y, y_pred)
```

feedback | Code | Run

CODECRAFT

Module | Context | Linear Algebra

Learn Algebra

32 Hours : 43 Minutes : 23 Seconds

Show me problem | Submit | Reset | Rebuild

Drag from here

Drop blocks here

x = df[['Eucalyptus Density (trees/hectare)']]

model = LinearRegression()

df = pd.DataFrame(data)

data = pd.read_csv('path/to/your/file.csv')

model.fit(x, y)

r_squared = r2_score(y, y_pred)

import pandas as pd

feedback | Code | Run

CODECRAFT

Module | Context | Linear Algebra

Learn Algebra

32 Hours : 43 Minutes : 23 Seconds

Show me problem | Submit | Reset | Rebuild

Drag from here

Drop blocks here

x = df[['Eucalyptus Density (trees/hectare)']]

model = LinearRegression()

df = pd.DataFrame(data)

model.fit(x, y)

r_squared = r2_score(y, y_pred)

import pandas as pd

data = pd.read_csv('path/to/your/file.csv')

feedback | Code | Run

Drag from here

Drop blocks here

x = df[['Eucalyptus Density (trees/hectare)']]

model = LinearRegression()

df = pd.DataFrame(data)

model.fit(x, y)

r_squared = r2_score(y, y_pred)

import pandas as pd

data = pd.read_csv('path/to/your/file.csv')

Learn Algebra

32 Hours : 43 Minutes : 23 Seconds

Show me problem | Submit | Reset | Rebuild

Scenario

A wildlife conservation organization is studying the impact of eucalyptus tree density on the population of koalas in a particular region. They have collected data on the number of eucalyptus trees per hectare and the corresponding koala population density in different areas within the region.

Problem

Using the provided data, perform linear regression analysis to model the relationship between eucalyptus tree density and koala population density. Determine the equation of the best-fit line and interpret the slope and y-intercept of the line in the context of the scenario. Use the regression model to predict the koala population density in an area with a specific eucalyptus tree density (provided by the user).

Hint Click here to get the hint.

Drag from here

Drop blocks here

```
x = df[['Eucalyptus Density (trees/hectare)']]
model = LinearRegression()
df = pd.DataFrame(data)
model.fit(x, y)
r_squared = r2_score(y, y_pred)
```

```
import pandas as pd
data = pd.read_csv('path/to/your/file.csv')
```

feedback | Code | Run

CODECRAFT

Module | Context | Linear Algebra

Learn Algebra

32 Hours : 43 Minutes : 23 Seconds

Show me problem | Submit | Reset | Rebuild

Scenario

A wildlife conservation organization is studying the impact of eucalyptus tree density on the population of koalas in a particular region. They have collected data on the number of eucalyptus trees per hectare and the corresponding koala population density in different areas within the region.

Problem

Using the provided data, perform linear regression analysis to model the relationship between eucalyptus tree density and koala population density. Determine the equation of the best-fit line and interpret the slope and y-intercept of the line in the context of the scenario. Use the regression model to predict the koala population density in an area with a specific eucalyptus tree density (provided by the user).

Hint Click here to get the hint.

Drag from here

- x = df[['Eucalyptus Density (trees/hectare)']]
- model = LinearRegression()
- df = pd.DataFrame(data)
- model.fit(x, y)
- r_squared = r2_score(y, y_pred)

Drop blocks here

- import pandas as pd
- data = pd.read_csv('path/to/your/file.csv')

feedback | Code | Run

```
import pandas as pd
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error, r2_score
data = {"Sales": [1200, 1500, 1800, 2100, 2400, 2700, 3000, 3300, 3600],
        "Advertising Spend": [100, 150, 200, 250, 300, 350, 400, 450, 500]}
```

Scenario

A wildlife conservation organization is studying the impact of eucalyptus tree density on the population of koalas in a particular region. They have collected data on the number of eucalyptus trees per hectare and the corresponding koala population density in different areas within the region.

Problem

Using the provided data, perform linear regression analysis to model the relationship between eucalyptus tree density and koala population density. Determine the equation of the best-fit line and interpret the slope and y-intercept of the line in the context of the scenario. Use the regression model to predict the koala population density in an area with a specific eucalyptus tree density (provided by the user).

Hint Click here to get the hint.

Drag from here

Drop blocks here

```
x = df[['Eucalyptus Density (trees/hectare)']]
model = LinearRegression()
df = pd.DataFrame(data)
model.fit(x, y)
r_squared = r2_score(y, y_pred)
```

```
import pandas as pd
data = pd.read_csv('path/to/your/file.csv')
```

feedback | Code | Run

LASTRUN on3/31/2024.11:14:25PM

Check1 passed

Check2 passed

Check3 passed

Check4 passed

Check5 passed

Check6 passed

CODECRAFT

Module | Context | Linear Algebra

Learn Algebra

Submit | Reset | Rebuild

Scenario

A wildlife conservation organization is studying the impact of eucalyptus tree density on the population of koalas in a particular region. They have collected data on the number of eucalyptus trees per hectare and the corresponding koala population density in different areas within the region.

Problem

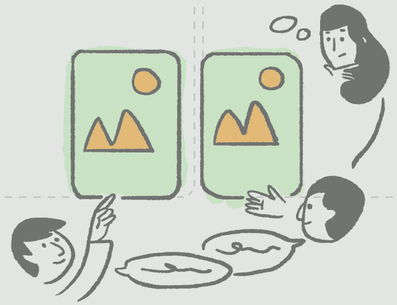
Using the provided data, perform linear regression analysis to model the relationship between eucalyptus tree density and koala population density. Determine the equation of the best-fit line and interpret the slope and y-intercept of the line in the context of the scenario. Use the regression model to predict the koala population density in an area with a specific eucalyptus tree density (provided by the user).

Hint Click here to get the hint.

Drag from here

Drop blocks here

Are you ready to craft code?



start

Thinking of an interesting problem...

....

CODECRAFT

Module | Context | Linear Algebra

admin login

Learn Algebra

32 Hours : 43 Minutes : 23 Seconds

Show me problem

Submit | Reset | Rebuild

Drag from here

Drop blocks here

```
import pandas as pd
x = df[['Eucalyptus Density (trees/hectare)']]
model = LinearRegression()
df = pd.DataFrame(data)
data = pd.read_csv('path/to/your/file.csv')
model.fit(x, y)
r_squared = r2_score(y, y_pred)
```

feedback | Code | Run

CODECRAFT

Module | Context | Linear Algebra

admin login

Learn Algebra

32 Hours : 43 Minutes : 23 Seconds

Show me problem

Submit | Reset | Rebuild

🔑 : please enter password

Drag from here

Drop blocks here

```
import pandas as pd
x = df[['Eucalyptus Density (trees/hectare)']]
model = LinearRegression()
df = pd.DataFrame(data)
data = pd.read_csv('path/to/your/file.csv')
model.fit(x, y)
r_squared = r2_score(y, y_pred)
```

feedback | Code | Run

Thinking of an interesting problem...

.....