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Final Exam

Final Exam Instructions

1. Time allowed: **1 hour**
2. Attempts per question:
   - One attempt - For True/False questions
   - Two attempts - For any question other than True/False
3. Clicking the "**Final Check**" button when it appears, means your submission is **FINAL**. You will **NOT** be able to resubmit your answer for that question ever again

IMPORTANT: Do not let the time run out and expect the system to grade you automatically. You must explicitly submit your answers, otherwise they would be marked as incomplete.

Question 1

1/1 point (graded)

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- ☐ perform data analytics and build predictive models.
- ☐ train and test a machine learning algorithm.
- ☑ share unbiased representation of data.
- ☑ support recommendations to different stakeholders.

✔

Submit You have used 2 of 2 attempts

✔ Correct (1/1 point)

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originally developed as an EEG/ECoG visualization tool.

- False
- True ✔

Submit You have used 1 of 1 attempt

✔ Correct (1/1 point)

Question 3

1/1 point (graded)

What are the layers that make up the Matplotlib architecture?

- FigureCanvas Layer, Renderer Layer, and Artist Layer.
- Backend_Bases Layer, Artist Layer, Scripting Layer.
- Backend Layer, Artist Layer, and Scripting Layer. ✔
- Backend Layer, FigureCanvas Layer, Renderer Layer, Artist Layer, and Scripting Layer.
- Figure Layer, Artist Layer, and Scripting Layer.

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✔ Correct (1/1 point)

Question 4

0/1 point (graded)

Using the notebook backend, you can modify a figure after it is rendered.

- ◉ False ✖
- ○ True

Submit You have used 1 of 1 attempt

✖ Incorrect (0/1 point)

Question 5

1/1 point (graded)

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- ☐ an area on which the figure is drawn.
- ☐ a handler of user inputs such as keyboard strokes and mouse clicks.
- ☑ lighter that the Artist layer, and is intended for scientists whose goal is to perform quick exploratory analysis.
- ☐ comprised one one main object - Artist.

✔

Submit You have used 2 of 2 attempts

✔ Correct (1/1 point)

Question 6

1/1 point (graded)

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- [ ] Event
- [ ] FigureCanvas
- [x] Tick Labels
- [x] Images

✔

Submit You have used 2 of 2 attempts

✔ Correct (1/1 point)

Question 7

1/1 point (graded)

There are three types of Artist objects.

- (•) False ✔
- ( ) True

Submit You have used 1 of 1 attempt

✔ Correct (1/1 point)

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- (•) False ✔
- ( ) True

Submit You have used 1 of 1 attempt

✔ Correct (1/1 point)

Question 9

1/1 point (graded)

Given a *pandas* dataframe, **question**, which of the following will create a horizontal barchart of the data in **question**?

- ( ) question.plot(type='bar', rot=90)
- ( ) question.plot(kind='bar', orientation='horizontal')
- (•) question.plot(kind='barh') ✔
- ( ) question.plot(kind='bar')
- ( ) question.plot(kind='bar', type='horizontal')

Submit You have used 2 of 2 attempts

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Pie charts are relevant only in the rarest of circumstances, and bar charts are far superior ways to quickly get a message across.

- False
- True ✔

Submit You have used 1 of 1 attempt

✔ Correct (1/1 point)

Question 11

1/1 point (graded)

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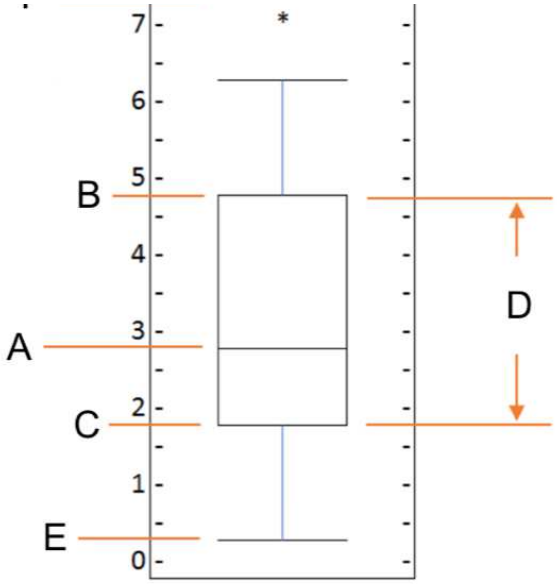

What do the letters in the box plot above represent?

- A = Mean, B = Upper Mean Quartile, C = Lower Mean Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers
- A = Mean, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers
- **A = Median, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers** ✔
- A = Median, B = Third Quartile, C = Mean, D = Inter Quartile Range, E = Lower Quartile, and F = Outliers
- A = Mean, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Maximum

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✔ Correct (1/1 point)

Question 12

1/1 point (graded)

What is the correct combination of function and parameter to create a box plot in Matplotlib?

- ○ Function = plot, and Parameter = kind, with value = "boxplot"
- ○ Function = plot, and Parameter = type, with value = "box"
- ◉ Function = plot, and Parameter = kind, with value = "box" ✔
- ○ Function = box, and Parameter = type, with value = "plot"
- ○ Function = boxplot, and Parameter = type, with value = "plot"

Submit You have used 2 of 2 attempts

✔ Correct (1/1 point)

Question 13

1/1 point (graded)

Which of the lines of code below will create the following scatter plot, given the *pandas* dataframe, **df_total**?

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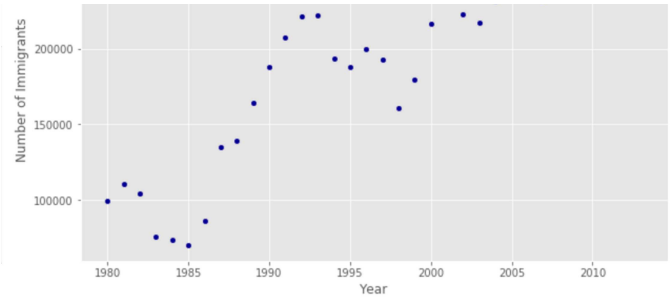
1981	110563
1982	104271
1983	75550
1984	73417
.	.
.	.
2013	258654



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plt.title('Total Immigrant population to Canada from 1980 - 2013')

plt.label ('Year')

plt.label('Number of Immigrants')

- import matplotlib.pyplot as plt
  df_total.plot(type='scatter', x='year', y='total')

  plt.title('Total Immigrant population to Canada from 1980 - 2013')

  plt.label ('Year')

  plt.label('Number of Immigrants')

- import matplotlib.pyplot as plt
  df_total.plot(kind='scatter', x='year', y='total')

  plt.title('Total Immigrant population to Canada from 1980 - 2013')

  plt.xlabel ('Year')

  plt.ylabel('Number of Immigrants')

  ✔

- import matplotlib.scripting.pyplot as plt
  df_total.plot(kind='scatter', x='year', y='total')

  plt.title('Total Immigrant population to Canada from 1980 - 2013')

  plt.label ('Year')

  plt.label('Number of Immigrants')

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✔ Correct (1/1 point)

Question 14

1/1 point (graded)

A bubble plot is a variation of the scatter plot that displays three dimensions of data.

- False
- True ✔

Submit You have used 1 of 1 attempt

✔ Correct (1/1 point)

Question 15

1/1 point (graded)

Seaborn is a Python visualization library that is built on top of Matplotlib.

- False
- True ✔

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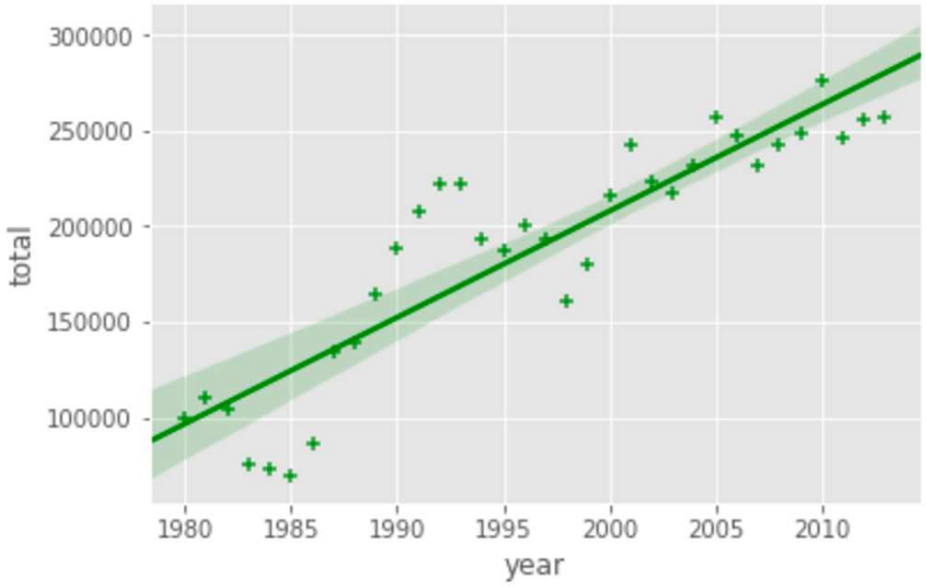
Which of the choices below will create the following regression line plot, given a *pandas* dataframe, **data_dataframe**?



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- data_dataframe.plot(kind="regression", color="green", marker="+")
- import seaborn as sns
  ax = sns.regplot(x="year", y="total", data=data_dataframe, color="green", marker="+")
  ✔
- data_dataframe.plot(kind="regplot", color="green", marker="+")
- import seaborn as sns
  ax = sns.regplot(x="total", y="year", data=data_dataframe, color="green")

Submit You have used 2 of 2 attempts

✔ Correct (1/1 point)

Question 17

1/1 point (graded)

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- [ ] is a depiction of the frequency of the stopwords, such as a, the, and, in some textual data.
- [x] is a depiction of the meaningful words in some textual data, where the more a specific word appears in the text, bigger and bolder it appears in the word cloud.
- [x] can be generated in Python using the *word_cloud* library that was developed by **Andreas Mueller**.
- [ ] can be easily created using Matplotlib using the scripting layer.

✔

Submit You have used 2 of 2 attempts

✔ Correct (1/1 point)

Question 18

0/1 point (graded)

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- [x] River Coastal
- [x] Stamen Toner
- [ ] Mapbox Bright
- [ ] Open Stamen

✖

Submit You have used 2 of 2 attempts

✖ Incorrect (0/1 point)

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object.

- ◉ False ✖
- ○ True

Submit You have used 1 of 1 attempt

✖ Incorrect (0/1 point)

Question 20

1/1 point (graded)

If you know that the latitude and the longitude of Spain are 40.4637 and 3.7492, respectively, and you are interested in generating a map of Spain to explore its river meanders and coastal zones. Which of the following lines of code will create the right map for you?

- ○ folium.Map(location=[40.4637, 3.7492], zoom_start=6, tiles='Stamen Terrain')
- ○ folium.Map(location=[40.4637, 3.7492], zoom_start=6, tiles='Stamen Toner')
- ◉ folium.Map(location=[40.4637, -3.7492], zoom_start=6, tiles='Stamen Toner') ✔
- ○ folium.Map(location=[-40.4637, -3.7492], zoom_start=6, tiles='Stamen Terrain')
- ○ folium.Map(location=[40.4637, 3.7492], zoom_start=6)

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✔ Correct (1/1 point)

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