

✔ Congratulations! You passed!

Grade received 100% To pass 66% or higher

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Data Science: The Sexiest Job in the 21st Century

Latest Submission Grade 100%

1. Walmart addressed its analytical needs by approaching Kaggle to host a competition for analyzing its proprietary data.

1 / 1 point

☐ False.

☒ True.

✔ Correct
Correct.

2. What is the average base salary of a data scientist reported by the New York Times?

1 / 1 point

☐ \$100,000

☐ \$150,000

☒ \$112,000

☐ \$16 per hour

☐ \$85,000 + Bonus

✔ Correct

3. According to professor Haider, the three important qualities to possess in order to succeed as a data scientist are curious, judgemental, and proficient in programming.

1 / 1 point

☐ True.

☒ False.

✔ Correct
Correct. The three important qualities to possess in order to succeed as a data scientist, according to professor Haider, are curious, judgemental, argumentative.

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What Makes Someone a Data Scientist?

Latest Submission Grade 100%

1. According to the reading, **the author** defines **data science** as the art of uncovering the hidden secrets in data.

1 / 1 point

☒ False.

☐ True.

✔ **Correct**

Correct. The author defines data science as what data scientists do.

2. What is admirable about **Dr. Patil's** definition of a **data scientist** is that it limits data science to activities involving machine learning.

1 / 1 point

☐ True.

☒ False.

✔ **Correct**

Correct. What is admirable about his definition is that it does not limit data science to activities involving machine learning.

3. According to the reading, the characteristics exhibited by **the best** data scientists are those who are curious, ask good questions, and are O.K. dealing with unstructured situations.

1 / 1 point

☒ True.

☐ False.

✔ **Correct**

Correct.

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Data Mining

Latest Submission Grade 100%

1. What is an example of a data reduction algorithm?

1 / 1 point

- ☐ Prior Variable Analysis.
- ☐ Cojoint Analysis.
- ☐ A/B Testing.
- ☒ Principal Component Analysis.

✔ **Correct**
Correct.

2. After the data are appropriately processed, transformed, and stored, what is a good starting point for data mining?

1 / 1 point

- ☐ Creating a relational database.
- ☐ Machine learning.
- ☒ Data Visualization.
- ☐ Non-parametric methods.

✔ **Correct**
Correct.

3. **In-sample forecast** is the process of formally evaluating the predictive capabilities of the models developed using observed data to see how effective the algorithms are in reproducing data.

1 / 1 point

- ☒ True
- ☐ False

✔ **Correct**

Regression

Latest Submission Grade 100%

1. Who developed the statistical technique known as regression?

1 / 1 point

- ☐ Blaise Pascal
- ☐ Thomas Bayes
- ☐ Sir Isaac Newton
- ☐ Gerolamo Cardano
- ☒ Sir Frances Galton

✓ **Correct**

2. The author discovered that houses located more than 2.5 kms to shopping centres sold for less than the rest.

1 / 1 point

- ☐ True.
- ☒ False.

✓ **Correct**

Correct. It is the other way around; houses located less than 2.5 kms to shopping centres sold for less than the rest.

3. Based on the reading, which of the following are questions that can be put to regression analysis?

1 / 1 point

- ☒ What is the impact of lot size on housing price?

✓ **Correct**

Correct.

- ☐ Do homes with brick exterior sell in rural areas?
- ☒ Do homes with brick exterior sell for less than homes with stone exterior?

✓ **Correct**

Correct.

- ☐ What are typical land taxes in a house sale?

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Grade received 100% To pass 66% or higher

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The Final Deliverable

Latest Submission Grade 100%

1. The United States Economic Forecast is a publication by McKinsey University Press.

1 / 1 point

☐ True.

☒ False.

✔ **Correct**
Incorrect.

2. The report discussed in the reading successfully did the job of:

1 / 1 point

☐ Calculating projections for the economy.

☐ Summarizing pages and pages of research.

☐ Convincing the leadership team to act on an initiative.

☒ Using data and analytics to generate the likely economic scenarios.

✔ **Correct**
Correct.

3. According to the reading, it is recommended that a team waits until the results of analytics are out before they can decide on the final deliverable.

1 / 1 point

☐ True

☒ False

✔ **Correct**
Correct. In order to produce a compelling narrative, initial planning and conceptualizing of the final deliverable is of extreme importance.

✔ Congratulations! You passed!

Grade received 100% To pass 66% or higher

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The Report Structure

Latest Submission Grade 100%

1. The results section is where you craft your main arguments and present your conclusion.

1 / 1 point

☐ True

☒ False

✔ Correct

Correct. The results section is where you present the empirical findings.

2. The discussion section is where you introduce the research methods and data sources used for the analysis.

1 / 1 point

☒ False.

☐ True.

✔ Correct

Correct.

3. Adding a list of references and an acknowledgment section are examples of housekeeping, according to the author.

1 / 1 point

☒ True.

☐ False.

✔ Correct

Correct.

✔ Congratulations! You passed!

Grade received 91.66% To pass 80% or higher

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Final Exam

Latest Submission Grade 91.66%

1. According to the Module 1 reading, "The Sexiest Job in the 21st Century", a report published by the McKinsey Global Institute, it is projected that there would be a shortage of 140,000 – 190,000 people with what type of skills in the United States by 2018?

1 / 1 point

- ☐ Social skills
- ☐ Economic skills
- ☒ Deep analytical skills
- ☐ Management skills

✔ Correct

2. According to the Module 1 reading, "The Sexiest Job in the 21st Century", what magazine called Data Science the sexiest job of the 21st century?

1 / 1 point

- ☒ Harvard Business Review
- ☐ Forbes
- ☐ Wired
- ☐ Bloomberg Businessweek

✔ Correct

3. According to the Module 1 reading "What Makes Someone a Data Scientist", Hal Varian, the chief economist at Google, declared that "the sexy job in the next ten years will be _____".

1 / 1 point

- ☐ Engineers.
- ☐ Computer Scientists.
- ☐ Physicists.
- ☒ Statisticians.

✔ Correct

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✓ Correct

4. According to the reading Module 1 "What Makes Someone a Data Scientist", the author defines a data scientist as someone who finds solutions to what, by analyzing data using appropriate tools and then tells stories to communicate their findings to the relevant stakeholders?

1 / 1 point

- ☐ Questions
- ☒ Problems
- ☐ Drawbacks
- ☐ Complications

✓ Correct

5. According to the Module 2 reading "Data Mining", the _____ of a data mining exercise largely depends on the quality of the data.

1 / 1 point

- ☐ Difficulty
- ☒ Output
- ☐ Results
- ☐ Input

✓ Correct

6. According to the Module 2 reading, "Data Mining", when data is missing in a systematic way, you should determine the impact of the missing data on the results and whether missing data can be excluded from what?

1 / 1 point

- ☐ The evaluation
- ☒ The analysis
- ☐ The study
- ☐ The data set

✓ Correct

7. Based on the Module 2 reading, "Regression", the real added value of the author's research on what type of properties is quantifying the magnitude of relationships between housing prices and different determinants?

1 / 1 point

7. Based on the Module 2 reading, "Regression", the real added value of the author's research on what type of properties is quantifying the magnitude of relationships between housing prices and different determinants?

1 / 1 point

- ☐ Foreclosed
- ☐ Commercial real estate
- ☐ Vacant
- ☒ Residential real estate

 Correct

8. Based on the Module 2 reading, "Regression", adding what type of room impacted the price of a home the most?

1 / 1 point

- ☐ Bedroom
- ☐ Theater room
- ☒ Washroom
- ☐ Game room

 Correct

9. According to the Module 3 reading "The Final Deliverable", what is the ultimate purpose of analytics?

0 / 1 point


- ☐ To efficiently store big data with minimum storage requirements.
- ☐ To facilitate meetings between sales and marketing.
- ☒ To evangelize data science.
- ☐ To communicate findings to stakeholders to formulate policy or strategy.

 Incorrect

10. Based on The Module 3 reading, "The Final Deliverable", it mentions a common role of a data scientist is to use what to build a narrative to communicate findings to stakeholders?

1 / 1 point

- ☐ Strategies
- ☐ Big data
- ☐ Spreadsheets

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- ☐ To facilitate meetings between sales and marketing.
- ☒ To evangelize data science.
- ☐ To communicate findings to stakeholders to formulate policy or strategy.

Incorrect

10. Based on The Module 3 reading, "The Final Deliverable", it mentions a common role of a data scientist is to use what to build a narrative to communicate findings to stakeholders?

1 / 1 point

- ☐ Strategies
- ☐ Big data
- ☐ Spreadsheets
- ☒ Analytics insights

Correct

11. Based on the Module 3 reading, "The Report Structure", regardless of the length of the final deliverable, the author recommends that it includes a cover page, table of contents, executive summary, a methodology section, and a what?

1 / 1 point

- ☐ Project scope statement
- ☐ List of people who worked on the project
- ☒ Discussion section
- ☐ Copy of your data

Correct

12. An introductory section is always helpful in introducing the research methods and presenting the statistical calculations.

1 / 1 point

- ☐ True.
- ☒ False.

Correct