

Quiz-Course 1. IBM What Is Data Science (Coursera)

Week 1 Quiz- Defining Data Science

1.How is Walmart reported to have addressed its analytical needs

- **Crowdsourcing**
- Social media
- Code sharing
- Outsourcing
- None of the options is correct

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

- **\$112,000**
- \$100,000
- \$150,000
- \$16 per hour
- \$85,000 + Bonus

3.According to professor Haider, the three important qualities to possess in order to succeed as a data scientist are:

- **Judgemental**
- **Curious**
- **Good Story Teller (Argumentative)**
- Proficient in Programming
- Good at Math and Statistics

Week 1 Quiz – What Makes Someone a Data Scientist

1. According to the reading, how the author define data science?

- **Data science is what data scientists do.**
- Data science is the art of uncovering the hidden secrets in data.
- Data science is a way of understanding things and understanding the world.
- Data science is a physical science like physics or chemistry
- Data science is some data and more science.

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

- **False**
- True

→ *What is admirable about Dr Patil's definition is that it is inclusive of individuals of **various academic backgrounds and training**, and does not restrict the definition of a data scientist to a particular tool or subject it to a certain arbitrary minimum threshold of data size*

3.According to the reading, what characteristics are said to be exhibited by the best data scientists?

- **Curious individuals who ask good questions and are O.K. dealing with unstructured situations.**
- Really curious people who ask good questions and have at least 10 years of experience.
- Really curious engineers and statisticians.
- Really curious people who ask good questions.
- Thinkers who are really curious and hold a Ph.D.

Week 2 – Quiz- Data Mining

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

- Prior Variable Analysis
- **Principal Component Analysis (PCA)**
- Cojoint Analysis
- A/B Testing

2.After the data are appropriately processed, transformed, and stored, machine learning and non-parametric methods are a good standing point for data mining

- True
- **False**

→ ***Data visualization** is a good starting point for data mining.*

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.

- **True**
- False

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Week 2 - Quiz - Regression

1. Regression is a statistical technique developed by Sir Frances Galton

- **True**
- False

2. The authors discovered that, all else being equal, houses located less than 5 kms but more than 2.5 kms to shopping centers sold for more than the rest

- **True**
- False

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

- **Do homes with brick exterior sell for less than homes with stone exterior?**
- **What is the impact of lot size on housing price?**
- Do homes with brick exterior sell in rural areas?
- What are typical land taxes in a house sale?

Week 3- Quiz-The Final Deliverable

1. The United States Economic Forecast is a publication by:

- **Deloitte University Press**
- McGraw Hill Education.
- McKinsey Publication Inc.
- Cambridge university Press

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

- **Using data and analytics to generate the likely economic scenarios**
- Calculating projections for the economy
- Convincing the leadership team to act on an initiative
- Summarizing pages and pages of research

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:

- True
- **False**

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

Week 3- Quiz- The Report Structure

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

- True
- **False**

→ ***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

- True
- **False**

→ ***Discussion Section:** you highlight your findings provide the ultimate missing piece to the puzzle. Refer the reader to the research question & the knowledge gaps you identified earlier. Rely on the power of narrative to enable numbers to communicate your important findings to the reader.*

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

- **True**
- False

Final Exam (Timed Exam)

1. According to the Module 1 reading, "The Sexiest Job in the 21st Century", a report published by the McKinsey Global Institute, in what year a shortage of 140,000 – 190,000 people with deep analytical skills in the United States is projected?

- 2015
- 2017
- **2018**
- 2019

2. According to the Module 1 reading, "The Sexiest Job in the 21st Century", data Science was called the sexiest job of what century by Harvard Business Review?

- 19th century
- 20th century
- **21st century**
- 22nd century

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3. According to the Module 1 reading "What Makes Someone a Data Scientist", this chief economist at Google declared that "the sexy job in the next ten years will be **statisticians**". What is his name:

- Sundar Pichai
- Larry Page
- **Hal Varian**
- Sal Barian

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?

- **Problems**
- Drawbacks
- Questions
- Complications

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

- **The data**
- The data scientist
- The project
- The material

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

- Averages
- **The missing data**
- Extrapolation
- Changing data

7. Based on the Module 2 reading, "Regression", which of the following best describes the real added value of the author's research on residential real estate properties?

- Quantifying people's preferences of different transport services.
- **Quantifying the magnitude of relationships between housing prices and different determinants.**
- The research revealed findings that opposed basic perceptions that people hold about the real estate properties.
- The research determined that there was no correlation between proximity to shopping centers and housing prices.

8. Based on the Module 2 reading, "Regression", the author's research revealed that adding what additional room had a bigger impact than adding a bedroom?

- Study
- Playroom
- Theater room
- **Washroom**

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

- Efficiently store big data with minimum storage requirements
- **Formulate policy or strategy**
- Facilitate meetings between sales and marketing
- Evangelize data science

10. The reading in Module 3, "The Final Deliverable", mentions a common role of a _____ is to use analytics insights to build a narrative to communicate findings to stakeholders.

- Engineer
- CEO
- CFO
- **Data scientist**

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 discussion section.

- False
- **True**

12. Based on the Module 3 reading, "The Report Structure", an introductory section is always helpful in doing what for the reader who might be new to the topic?

- Showing the research methods
- **Setting up the problem**
- Describing the data set
- Presenting the statistical calculations