

TDS

Section Id :	64065364128
Section Number :	15
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	41
Number of Questions to be attempted :	41
Section Marks :	40
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	No
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	640653134071
Question Shuffling Allowed :	No

Question Number : 412 Question Id : 640653903988 Question Type : MCQ Calculator : Yes
Correct Marks : 0

Question Label : Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "DIPLOMA LEVEL : TOOLS IN DATA SCIENCE (COMPUTER BASED EXAM)"

**ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?
CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.**

(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE TOP FOR THE SUBJECTS REGISTERED BY YOU)

Options :

6406533044048. ✓ YES

6406533044049. ✗ NO

Sub-Section Number :	2
Sub-Section Id :	640653134072
Question Shuffling Allowed :	Yes

Question Number : 413 Question Id : 640653903989 Question Type : MCQ Calculator : Yes
Correct Marks : 1

Question Label : Multiple Choice Question

What does a correlation coefficient close to +1 indicate?

Options :

6406533044050. ✖ A weak negative relationship between variables

6406533044051. ✖ No relationship between variables

6406533044052. ✔ A strong positive relationship between variables

6406533044053. ✖ A strong negative relationship between variables

Question Number : 414 Question Id : 640653903990 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

How can emotions be effectively used in data storytelling?

Options :

6406533044054. ✖ By overwhelming the audience with excessive data

6406533044055. ✔ By highlighting the impact of data insights on real people or situations

6406533044056. ✖ By using only statistical methods

6406533044057. ✖ By avoiding any form of visualization

Question Number : 415 Question Id : 640653903991 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which tool is particularly useful for cleaning messy data and transforming it into a structured format?

Options :

6406533044058. ✖ SQL

6406533044059. ✖ Python

6406533044060. ✔ OpenRefine

6406533044061. ✖ Tableau

Question Number : 416 Question Id : 640653903992 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following practices is considered unethical when performing web scraping?

Options :

6406533044062. ✖ Respecting the website's robots.txt file

6406533044063. ✖ Avoiding excessive requests that could overwhelm the server

6406533044064. ✔ Scraping personal data without the user's consent

6406533044065. ✖ Citing the source of data in your analysis

Question Number : 417 Question Id : 640653903993 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which API is commonly used for obtaining geolocation data from an address?

Options :

6406533044066. ✖ Twitter API

6406533044067. ✔ Nominatim (OpenStreetMap)

6406533044068. ✖ Spotify API

6406533044069. ✖ OpenWeatherMap API

Question Number : 418 Question Id : 640653903994 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

What is the primary goal of data storytelling?

Options :

6406533044070. ✖ To analyze raw data without any context

6406533044071. ✖ To collect large datasets

6406533044072. ✔ To present data insights in a way that is engaging and understandable

6406533044073. ✖ To create complex data models

Question Number : 419 Question Id : 640653903995 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which tool is commonly used to scrape data directly from Excel?

Options :

6406533044074. ✖ Beautiful Soup

6406533044075. ✖ Selenium

6406533044076. ✔ Power Query

6406533044077. ✖ Scrapy

Question Number : 420 Question Id : 640653903996 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

What does the term "continuous deployment" refer to?

Options :

6406533044078. ✖ Deploying models without any testing

6406533044079. ✔ Automatically deploying updates to production as soon as they pass testing

6406533044080. ✖ Deploying the model only once after completion

6406533044081. ✖ Deploying models to multiple platforms simultaneously

Question Number : 421 Question Id : 640653903997 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following is an important security consideration during deployment?

Options :

- 6406533044082. ✖ Ensuring high model accuracy
- 6406533044083. ✔ Implementing authentication and access controls
- 6406533044084. ✖ Minimizing the size of the deployment package
- 6406533044085. ✖ Using complex data visualization tools

Question Number : 422 Question Id : 640653903998 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following is a key consideration when deploying a data science model?

Options :

- 6406533044086. ✖ The size of the dataset
- 6406533044087. ✔ The model's interpretability and scalability in a production environment
- 6406533044088. ✖ The programming language used
- 6406533044089. ✖ The frequency of data collection

Question Number : 423 Question Id : 640653903999 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Why is version control important in the deployment of data science models?

Options :

- 6406533044090. ✖ It ensures that only one version of the model exists
- 6406533044091. ✔ It tracks changes and allows rollback to previous versions if necessary
- 6406533044092. ✖ It automatically improves model accuracy
- 6406533044093. ✖ It reduces the need for documentation

Question Number : 424 Question Id : 640653904000 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which factor is most important when choosing a deployment environment?

Options :

- 6406533044094. ✖ The visual appearance of the platform
- 6406533044095. ✔ The ease of integration with existing systems and scalability
- 6406533044096. ✖ The programming language used in the model
- 6406533044097. ✖ The geographical location of the user

Question Number : 425 Question Id : 640653904001 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following is an example of a data transformation process?

Options :

6406533044098. ✖ Collecting new data

6406533044099. ✔ Changing a categorical variable into numeric values

6406533044100. ✖ Deleting irrelevant datasets

6406533044101. ✖ Visualizing data trends

Question Number : 426 Question Id : 640653904002 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

What is the purpose of the conclusion in a data story?

Options :

6406533044102. ✔ To summarize the key findings and suggest actions or further considerations

6406533044103. ✖ To introduce new data

6406533044104. ✖ To present the raw data in its entirety

6406533044105. ✖ To discuss the data collection process in detail

Question Number : 427 Question Id : 640653904003 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

What is a Geographic Information System (GIS) primarily used for?

Options :

6406533044106. ✖ Creating machine learning models

6406533044107. ✔ Analyzing and visualizing spatial data

6406533044108. ✖ Managing relational databases

6406533044109. ✖ Developing web applications

Question Number : 428 Question Id : 640653904004 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which Excel feature is commonly used to visualize future trends based on historical data?

Options :

6406533044110. ✖ Pivot Table

6406533044111. ✖ Solver

6406533044112. ✔ Forecast Sheet

6406533044113. ✖ VLOOKUP

Question Number : 429 Question Id : 640653904005 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Why is the data discovery process crucial in data science?

Options :

6406533044114. ✖ It ensures the data is free of errors

6406533044115. ✔ It helps in understanding the problem context better

6406533044116. ✖ It allows for immediate model building

6406533044117. ✖ It simplifies the data visualization process

Question Number : 430 Question Id : 640653904006 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following tasks is an example of text extraction using large language models?

Options :

6406533044118. ✖ Summarizing a news article

6406533044119. ✖ Translating text from one language to another

6406533044120. ✔ Identifying the names of entities in a legal document

6406533044121. ✖ Generating creative writing prompts

Question Number : 431 Question Id : 640653904007 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following elements are typically combined in data storytelling?

Options :

6406533044122. ✔ Data analysis, visualizations, and narrative

6406533044123. ✖ Raw data, complex algorithms, and data storage

6406533044124. ✖ Data collection, coding, and debugging

6406533044125. ✖ Hypothesis testing, data cleaning, and model training

Question Number : 432 Question Id : 640653904008 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following is a commonly used format when scraping data from websites?

Options :

6406533044126. ✔ JSON

6406533044127. ✖ SQL

6406533044128. ✖ PDF

6406533044129. ✖ CSV

Question Number : 433 Question Id : 640653904009 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which type of data is best represented by a bar chart?

Options :

6406533044130. ✖ Continuous data over time

6406533044131. ✔ Categorical data

6406533044132. ✖ Relationships between two variables

6406533044133. ✖ Proportions of a whole

Question Number : 434 Question Id : 640653904010 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following is NOT typically considered a data cleaning task?

Options :

6406533044134. ✖ Removing duplicates

6406533044135. ✖ Normalizing data

6406533044136. ✔ Generating predictive models

6406533044137. ✖ Handling missing values

Question Number : 435 Question Id : 640653904011 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Why is providing context important in data storytelling?

Options :

6406533044138. ✖ It makes the data more complex

6406533044139. ✖ It allows the audience to understand the data in isolation

6406533044140. ✔ It helps the audience grasp the relevance and implications of the data

6406533044141. ✖ It reduces the need for data cleaning

Question Number : 436 Question Id : 640653904012 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following is an ethical concern when using large language models?

Options :

6406533044142. ✖ Their inability to perform complex calculations

6406533044143. ✔ Their potential to spread misinformation if not used carefully

6406533044144. ✖ Their high cost of implementation

6406533044145. ✖ Their lack of user-friendly interfaces

Question Number : 437 Question Id : 640653904013 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

What is the purpose of data profiling in data preparation?

Options :

6406533044146. ✖ To visualize data trends

6406533044147. ✔ To assess the quality and structure of data

6406533044148. ✖ To collect new data

6406533044149. ✖ To perform predictive analysis

Question Number : 438 Question Id : 640653904014 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following best describes an ordinal value?

Options :

6406533044150. ✖ Data that is categorized without a specific order

6406533044151. ✔ Data that represents a specific order or ranking

6406533044152. ✖ Data measured on a scale with equal intervals

6406533044153. ✖ Data that can take on any value within a range

Question Number : 439 Question Id : 640653904015 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following is true about Heroku?

Options :

6406533044154. ✖ It is a data visualization tool

6406533044155. ✔ It is a cloud platform that allows easy deployment of web applications

6406533044156. ✖ It is used for creating machine learning models

6406533044157. ✖ It is a version control system

Question Number : 440 Question Id : 640653904016 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

What is a primary characteristic of large language models (LLMs)?

Options :

6406533044158. ✖ They are designed to handle small datasets efficiently

6406533044159. ✖ They are based on rule-based systems

6406533044160. ✔ They are trained on vast amounts of text data to generate human-like text

6406533044161. ✖ They are only used for numerical data analysis

Question Number : 441 Question Id : 640653904017 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Why is data normalization important in the data preparation process?

Options :

- 6406533044162. ✖ To simplify the data collection process
- 6406533044163. ✖ To ensure that all data follows the same distribution
- 6406533044164. ✖ To remove outliers from the dataset
- 6406533044165. ✔ To scale data to a common range for better comparison

Question Number : 442 Question Id : 640653904018 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following best describes linear regression?

Options :

- 6406533044166. ✖ A method to classify data into categories
- 6406533044167. ✔ A technique to find the relationship between a dependent variable and one or more independent variables
- 6406533044168. ✖ A process of clustering similar data points
- 6406533044169. ✖ A way to visualize data trends over time

Question Number : 443 Question Id : 640653904019 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which feature in Excel can be used to add narrative text that dynamically updates based on data changes?

Options :

- 6406533044170. ✖ PivotTables
- 6406533044171. ✖ Conditional Formatting
- 6406533044172. ✔ Linked text boxes
- 6406533044173. ✖ Solver

Question Number : 444 Question Id : 640653904020 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which Excel tool can help you visually identify outliers in a dataset?

Options :

- 6406533044174. ✖ Scatter Plot
- 6406533044175. ✖ Line Chart
- 6406533044176. ✖ Histogram

6406533044177. ✓ Box Plot

Question Number : 445 Question Id : 640653904021 Question Type : MCQ Calculator : Yes Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following is commonly used for time series forecasting?

Options :

6406533044178. ✗ Decision Trees

6406533044179. ✗ K-Means Clustering

6406533044180. ✓ ARIMA (AutoRegressive Integrated Moving Average)

6406533044181. ✗ Principal Component Analysis (PCA)

Question Number : 446 Question Id : 640653904022 Question Type : MCQ Calculator : Yes Correct Marks : 1

Question Label : Multiple Choice Question

What is the primary goal of deploying a data science model or application?

Options :

6406533044182. ✗ To visualize data

6406533044183. ✓ To make the model accessible to end-users for real-world application

6406533044184. ✗ To collect more data

6406533044185. ✗ To perform exploratory data analysis

Question Number : 447 Question Id : 640653904023 Question Type : MCQ Calculator : Yes Correct Marks : 1

Question Label : Multiple Choice Question

What is a significant requirement for training large language models effectively?

Options :

6406533044186. ✗ High-quality labeled datasets of moderate size

6406533044187. ✗ Limited computational resources

6406533044188. ✓ Large amounts of unstructured text data and powerful computational resources

6406533044189. ✗ Manual coding of grammatical rules

Question Number : 448 Question Id : 640653904024 Question Type : MCQ Calculator : Yes Correct Marks : 1

Question Label : Multiple Choice Question

What is the primary objective of data analysis?

Options :

6406533044190. ✗ To collect as much data as possible

6406533044191. ✗ To transform data into a usable format

6406533044192. ✔ To extract meaningful insights and patterns from data

6406533044193. ✘ To store data efficiently

Question Number : 449 Question Id : 640653904025 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

What is the primary goal of data visualization?

Options :

6406533044194. ✘ To store data efficiently

6406533044195. ✘ To collect data from different sources

6406533044196. ✔ To present data in a way that makes patterns and insights easier to understand

6406533044197. ✘ To build predictive models

Question Number : 450 Question Id : 640653904026 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following is a commonly used format for geospatial data?

Options :

6406533044198. ✘ CSV

6406533044199. ✘ XML

6406533044200. ✔ Shapefile (.shp)

6406533044201. ✘ JSON

Question Number : 451 Question Id : 640653904027 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

In network analysis, which centrality measure indicates the most "connected" node?

Options :

6406533044202. ✘ Betweenness centrality

6406533044203. ✘ Closeness centrality

6406533044204. ✔ Degree centrality

6406533044205. ✘ Eigenvector centrality

Question Number : 452 Question Id : 640653904028 Question Type : MCQ Calculator : Yes

Correct Marks : 1

Question Label : Multiple Choice Question

In which of the following domains is network analysis commonly applied?

Options :

6406533044206. ✘ Social media

6406533044207. ✖ Climate modeling

6406533044208. ✖ Genetic research

6406533044209. ✔ All of these