

INSEM EXAM – Honor Course (Data Science and Visualization)

* Required

INSEM Paper

..... involves extraction of knowledge from large volumes of different types of data. *

- ☐ Data Analysis
- ☐ Data Science
- ☐ Descriptive Analytics
- ☒ None of the mentioned

..... which is original data source. *

- ☒ Raw data
- ☐ Pre-processed data
- ☐ Raw data is the data obtained after processing steps
- ☐ None of the mentioned



Data Scientist performs.....? *

- ☐ Defining the question
- ☐ Creating reproducible code
- ☐ Challenge results
- ☒ All of the mentioned

Which of following is not characteristic of Big Data? *

- ☒ Handling Massive amount of data
- ☐ Processing Different Data types and Structure.
- ☐ Handling by traditional tools.
- ☐ Analyze the data

Which from the below relates correct to Velocity in Big Data? *

- ☐ The amount of data handling by processing & analysing.
- ☒ The fastest rate at which data is received or generated.
- ☐ Data types requiring additional pre-processing to derive meaning and support metadata. Structured, Semi Structured, Unstructured Data.
- ☐ Accurate or truthful a data set may be, the quality of the data, trustworthy the data source, type, and processing of it is.



The characteristics of big data are often referred to as..... *

- ☐ volume, velocity, and variability.
- ☐ volume, veracity, and variety.
- ☐ volume, volatility, and variability.
- ☒ volume, velocity, and variety

Which of the following is not a key skill for data science? *

- ☒ None of the above
- ☐ Machine Learning
- ☐ Data Visualization
- ☐ Computing, and Algorithm building

In data science and big data the main categories of data are.... *

- ☐ Structured and Unstructured
- ☐ Graph-based
- ☐ Audio, video, and images
- ☒ All of the above



.....data is data that depends on a data model and resides in a fixed field within a record. *

- ☒ Structured
- ☐ Unstructured
- ☐ Graph-based
- ☐ Audio, video, and images

The data science process isn't linear it can be divided into steps..... *

- ☒ Setting the research goal, Gathering data, Data preparation, Data exploration, Modeling, Presentation and automation.
- ☐ Setting the research goal, Preparing the model, Data isolation, Data exploration, Modeling, Presentation and automation
- ☐ Setting the research goal, Gathering data, Data preparation, Data visualization, Modeling, Presentation and automation.
- ☐ Setting the research goal, Gathering data, Data visualization, Data exploration, Modeling, Presentation and automation.

The goal of thisstep is to gain a deep understanding of the data. *

- ☒ Data Exploration
- ☐ Data Preparation
- ☐ Model Building
- ☐ Gathering data



Which one is not a format of a data can be stored in official data repositories..... *

- ☐ databases
- ☒ data parts
- ☐ data warehouses
- ☐ data lakes

The Different ways of Combining Data are.... *

- ☐ Data enrichment
- ☐ Joining tables
- ☐ Appending tables
- ☒ All the above

.....is a field of study that gives computers the ability to learn without being explicitly programmed. *

- ☒ Machine learning
- ☐ Data Science
- ☐ Data Analytics
- ☐ Self Intelligence



.....and.....are of primary importance to a data scientist, to achieve these goals, a data scientist uses machine learning. *

- ☒ Regression, classification
- ☐ Data preparation and classification
- ☐ Cleaning, Regression
- ☐ Regression, data hiding

The modeling phase consists of *

- ☐ Feature engineering and model selection
- ☐ Training the model
- ☐ Model validation and selection
- ☐ Applying the trained model to unseen data
- ☒ All of the above

Unsupervised learning techniques don't rely on labeled data *

- ☒ True
- ☐ False



Which of the following is not a application for data science? *

- ☐ Recommendation Systems
- ☐ Image & Speech Recognition
- ☐ Online Price Comparison
- ☒ Privacy Checker

Mean of a random variable is the *

- ☒ Midpoint of its distribution.
- ☐ Skewness of the distribution
- ☐ deviation in the distribution
- ☐ Bayesian inference.

The median of 7, 6, 4, 8, 2, 5, 11 is..... *

- ☒ 6
- ☐ 12
- ☐ 11
- ☐ 4



..... refers to measures of how spread out our data is. *

- ☐ Dispersion
- ☐ Randomness
- ☒ Standard deviation
- ☐ Mode

.....is a variable whose possible values have an associated probability distribution. *

- ☐ Discrete Variable
- ☒ Random variable
- ☐ Standard deviation
- ☐ Discrete random variables

.....is the classic bell curve-shaped distribution and is completely determined by two parameters: its mean μ and its standard deviation *

- ☒ Binomial distribution
- ☐ Continuous distribution
- ☐ Bernoulli Distribution
- ☐ Normal distribution



Regression is one of the type of clustering? *

- ☐ True
- ☒ False

Extremely sensitive to the outliers is.....? *

- ☒ K-means clustering algorithm.
- ☐ K-medians clustering algorithm
- ☐ K-modes clustering algorithm
- ☐ K-medoids clustering algorithm

In which of the following cases will K-Means clustering fail to give good results? 1. Data points with outliers 2. Data points with different densities 3. Data points with round shapes 4. Data points with non-convex shapes *

- ☐ 1 and 2
- ☐ 2 and 3
- ☐ 2 and 4
- ☒ 1, 2 and 4
- ☐ 1, 2, 3 and 4



Iterations count in apriori _____ *

- ☐ increases with the size of the data
- ☒ increases with the size of the maximum frequent set
- ☐ decreases with the increase in size of the data
- ☐ decreases with increase in size of the maximum frequent set

Which of the following are interestingness measures for association rules? *

- ☐ recall
- ☐ lift
- ☐ accuracy
- ☒ interestingness measures

..... refers to a specific implementation of association rules. *

- ☒ Market basket analysis
- ☐ Churn Prediction
- ☐ Image Classification
- ☐ Spam filtering



Which is an example of regression ...

- ☒ Predict residential home prices.
- ☐ Analyze effect of proposed radiation treatment
- ☐ Document analysis
- ☒ Spam Filtering

In linear regression modeling, the outcome variable is *

- ☐ Continuous
- ☐ Categorical
- ☐ None of the above
- ☒ Both a and b

.....is one of the most popular data mining approach for finding frequent item sets from a transaction dataset and derive association rules. *

- ☐ Binary
- ☐ Greedy
- ☐ Randomized
- ☒ Apriori



.....measures the difference in the probability of X and Y appearing together compared to statistical independence. *

- ☐ Leverage
- ☐ Lift
- ☐ Confidence
- ☒ Regression

Which method use data with label for training..... *

- ☒ Supervised learning
- ☐ Unsupervised learning
- ☐ Reinforcement learning
- ☐ None of these

..... method is supervised method. *

- ☐ Classification
- ☐ Clustering
- ☒ Both a and b
- ☐ None of the above



Where should we apply Bayes rule..... *

- ☐ Solving queries
- ☐ Increasing complexity
- ☐ Decreasing complexity
- ☒ Answering probabilistic query

..... types of discrete probability distributions *

- ☐ Poisson
- ☐ Bernoulli
- ☐ Binomial
- ☒ All of the above

Find the mode in given example. 2,5,6,2,2,2,5,6,2 *

- ☒ 2
- ☐ 4
- ☐ 6
- ☐ 5



..... in which correlations can be misleading when confounding variables are ignored. *

- ☐ Simpsons Paradox
- ☐ Correlational Caveats
- ☐ Bayes's Theorem
- ☒ Confounding and collinearity

Which of the following statements about Naive Bayes is correct? *

- ☐ Attributes are not equally important.
- ☒ Attributes are statistically dependent of one another given the class value.
- ☐ Attributes are statistically independent of one another given the class value.
- ☐ Attributes can't be nominal or numeric.

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