IS 466 (Decision Support Systems) Quiz # 1 Version 1
Fall 2023-2024 – Abdulrahman Mirza Student Name Student Name Student ID 1. In the decision making process proposed by Simon (1977), which of the following should be the second phase: A) implementation B) Intelligence - Design (C) Design D) Choice 2. A system that relies mostly on heuristics (what-if-then): A) Enterprise Resource Planning (B) Expert System C) Executive Information Systems D) Data Warehousing 3. A system that relies mostly on historical and comprehensive data: A) Enterprise Resource Planning B) Expert System Q Executive Information Systems (D) Data Warehousing 4. A system that relies mostly on providing dashboards and easy to understand graphics: A) Enterprise Resource Planning ~

5. A system that creates a single-source of truth for data items on daily functional

BK Expert System

B) Expert System

D) Data Warehousing

C) Executive Information Systems ~
D) Data Warehousing

(A) Enterprise Resource Planning

C) Executive Information Systems

IS 466 (Decision Support Systems) Quiz # 2 Version 1 Fall 2023-2024 – Abdulrahman Mirza Student Ng 1. One of the most important systems that make business intelligence possible is:

- - A) Enterprise Resource Planning.
 - B) Expert System.
 - C) Executive Information Systems.
 - (D) Data Warehousing.
- 2. What is a data mart:
 - E) A web-based database where clients can see their transaction history
 - F) A system where companies are able to buy data about customers.
 - A smaller sub-set of a data warehouse dedicated for a special business
 - H) A much larger system than a data warehouse that includes external data.
- 3. The letters in the ETL process stand for:
 - A) Extract, Transform, Load. B) Enhance, Toggle, Load.

 - C) Extend, Track, Load.
 - D) Extract, Terminate, Load.
- 4. The purpose of descriptive analytics is to:
 - A) Give recommendations on what actions to take. ~
 - B) Determine the expected future outcome of events.
 - Describe the current situation.
 - D) Take automated actions driven by ALX
- 5. The purpose of predictive analytics is to:
 - A) Give recommendations on what actions to take.
 - (B) Determine the expected future outcome of events.
 - Describe the current situation.
 - D) Take automated actions driven by AIX

IS 466 (Decision Support Systems) Quiz # 3 Version I Fall 2023-2024 – Abdulrahman Mirza Student Name Student I/Student I/

1. Which of the following	g is NOT a biometric	related AI technology:
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- A) Natural language processing.
- (B) Industrial robotics.
- C) Image recognition D) Voice recognition. K
- Which of the following is NOT an Al application:
 Smart homes.

 - F) Prediction.
 - G) Robotics.
 - Point-of-sales transaction processing.
- 3. Which of the following is an example of strong AI applications:
 - A) Chess game.
 - B) Medical diagnosis.
 - O Automoted call centers.
- Monitoring systems are an example of which of the following:
 A) Assisted intelligence.
 B) Autonomous Al.

 - C) Augmented intelligence.
 - D) Strong Al.
- 5. Which of the following is not a main areas/theories used in Analytics:
 - A) Statistics.
 - Cognitive computing. -
 - C) Operations research.
 - D) Management science

IS 466 (Decision Support Systems) Quiz # 4 Version 1 Fall 2023-2024 – Abdulrahman Mirza Student Name: Student ID #:

- 1. Which of the following areas can be considered part of data mining:
 - A) Management Science.
 - B) Artificial Intelligence.
 - C) Information visualization.
 - D) All options are true
- 2. What was/were the event(s) that helped the Miami Dade police department accept data mining in their crime detection operations:
 - A) A much higher crime rate than the last year.
 - B) The recommendation by the state government to start using technology in crime fighting.
 - The solving of some previously unsolved crimes.
 - All options are true.
- 3. Which of the following is/are important source(s) of data for data mining:
 - A) A data warehouse.
 - B) Web log files.
 - C) System data bases.
 - All options are true.)
- 4. In association types of patterns:
 - A) Future expected events or values are determined.
 - B) The natural grouping of things based on their characteristics.
 - (C) The grouping of related things
 - D) The determination of things to come in order.
- In segmentation types of patterns:
 - A) Future expected events or values are determined.
 - (B) The natural grouping of things based on their characteristics.
 - C) The grouping of related things.
 - (b) The determination of things to come in order.

- 1. According to the taxonomy of data mining as defined in the textbook, which of the following is NOT a data mining task:
 - A) Prediction.
 - B) Segmentation.
 - C) Association.
 - (D) Link analysis.
- 2. According to the taxonomy of data mining as defined in the textbook, which of the following is NOT a data mining method:
 - A) Regression.
 - B) Knowledge discovery.
 - C) Clustering.
 - D) Market-basket.
- 3. When it comes to types of learning in a data mining model, unsupervised learning involves which of the following:
 - A) Providing only output values to the model.
 - B) Providing both input and output values to the model.
 - C) Providing only input values to the model.
 - D) Noe of the options is true.
- 4. Which data mining method is used to determine the future expected value of the same variable:
 - A) Link analysis.
 - B) Market-basket.
 - C) Sequence analysis
 - D) Time series.
- 5. Which data mining method is used to discover relationships between groups of people or things:
 - A) Link analysis
 - B) Market-basket.
 - C) Sequence analysis.
 - D) Time series.

IS 466 (Decision Support Systems) Quiz # 5 Version 1
Fall 2023-2024 – Abdulrahman Mirza
Student Name:
Student ID #:

- 1. According to the taxonomy of data mining as defined in the textbook, which of the following is NOT a data mining task:
 - A) Prediction.
 - B) Segmentation
 - C) Association.
 - (D) Link analysis.
- 2. According to the taxonomy of data mining as defined in the textbook, which of the following is NOT a data mining method:
 - A) Regression.
 - B) Knowledge discovery.
 - C) Clustering.
 - D) Market-basket.
- 3. When it comes to types of learning in a data mining model, unsupervised learning involves which of the following:
 - A) Providing only output values to the model.
 - B) Providing both input and output values to the model.
 - C) Providing only input values to the model.
 - D) Noe of the options is true.
- 4. Which data mining method is used to determine the future expected value of the same variable:
 - A) Link analysis.
 - B) Market-basket.
 - C) Sinuence analysis
 - D) Time series.
- 5. Which data mining method is used to discover relationships between groups of people or things:
 - A) Link analysis.)
 - B) Market-basket.
 - C) Sequence analysis.
 - D) Time series.

IS 466 (Decision Support Systems) Quiz # 6 Version 1
Fall 2023-2024 – Abdulrahman Mirza Student Name:
Student ID #:

- 1. Which of the data mining processes involves a step that tries to get a good idea about the objective of the desired data mining model to be developed:
 - A) Classification.
 - (B) CRISP-DM.
 - C) SEMMA.
 - D) KDD.
- Which of the data mining processes is considered to be a more comprehensive process which actually involves a data-mining step:
 - A) Classification.
 - (B) CRISP-DM)
 - C) SEMMA.
 - D) KDD.
- In the CRISP-DM data mining process the phase that takes the most of the project time is:
 - A) Data Understanding
 - (B) Data Preparation
 - C) Model Building
 - D) Testing and Evaluation
- 4. The most used data mining method is:
 - A) Clustering.
 - B) Classification.
 - C) Time-series.
 - D) Regression.
- 5. Which of the following is NOT an example of nominal data:
 - A) High, middle, low
 - B) Open, closed.
 - C) Blue, green, yellow.
 - D) Pen, pencil, marker.

IS 466 (Decision Support Systems) Quiz # 7 V1 Student ID·
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Fall 2023 – Abdulrahman Mirza

Student Name:

1. Which of the following estimation methodology for classification produces more accurate prediction?

A) Single split.

B) K-fold cross-validation.

C) Confusion matrix

2. What is a different name for single split estimation methodology?

- A) Simple split.
- B) Holdout.
- C) Sample test estimation
- D) All options are true.

(b) All options are true.

3. In single test estimation methodology, what percent of the data is used for training the model:

- A) 1/2.
- B) 1/3.
- C) 1/4.
- (D) 2/3.

4. If k=5 in a K-fold cross-validation methodology, what percent of the data is used as testing data in each run:

- A) 10%.
- B) 80%.
- (C) 20%
- D) 5%.

5. What is the main purpose of using a confusion matrix?

- A) Determine which data to use for training and testing the model
- B) Determine the accuracy of the developed classification model
- C) Determine if there is error or missing data
- D) All options are true