Week 3: Tools for Data Science

Quiz 1: Watson Studio

1.
Question 1
Fill in the blank: In Watson Studio, a _____ is how you organize your resources to achieve a particular goal. Resources can include data, collaborators, and analytic assets like notebooks and models.

1 / 1 point

○
Job

◉
Project

○
Asset

○
Notebook

Correct

2.
Question 2
Fill in the blank: It's a best practice to remove or replace _____ before publishing to GitHub.

1 / 1 point

○
Code cells

◉
Credentials

○
Markdown text

○
Charts

Correct

3.
Question 3
Which of the following do you need to create in order to publish a notebook to your GitHub repository?

1 / 1 point

○
Apps

○
Profile

◉
Access token

○
Login credential

Correct

4.
Question 4
Fill in the blank: If you'd like to schedule a notebook in Watson Studio to run at a different time you can create a(n) _____.

1 / 1 point

○
Asset

○
Markdown cell

◉
Job

○
API

Correct

5.
Question 5
Fill in the blank: On the environments tab you can define the _____.

1 / 1 point

○
Hardware size.

○
Software configuration.

○
Runtime configuration for notebook editor.

○
Runtime configuration for flow editor.

◉
All of the above.

Correct

○

6.

Question 6
Fill in the blank: When sharing a read only version of a notebook, you can choose to share
_____.

1 / 1 point

○
Only text and output.

○
All content, excluding sensitive code cells.

○
All content including code.

○
A permalink.

◉
All of the above.

Correct

7.

Question 7
Fill in the blank: When working in a Jupyter Notebook, before returning to a project, it's important to
_____.

1 / 1 point

○
Insert to code.

○
Insert cells.

○
Run cells.

◉
Save your notebook.

Correct

8.

Question 8
Fill in the blank: Before running a notebook, it's a best practice to _____ to describe what the
notebook does.

1 / 1 point

○
Delete notebook cells.

○

Insert a cell at the top of the notebook.

○

Insert a cell at the bottom of the notebook.

○

Refresh your page.

Correct

9.
Question 9
Fill in the blank: In the _____ tab you can define the hardware size and software configuration for the runtime associated with Watson Studio tools such as notebooks.

1 / 1 point

◉

Environments

○

Assets

○

Overview

○

Settings

Correct

10.
Question 10
Fill in the blank: IBM Cloud uses _____ as a way for you to organize your account resources in customizable groupings so that you can quickly assign users access to more than one resource at a time.

1 / 1 point

○

Services

○

Projects

○

Catalogs

◉

Resource groups

Correct

○

Quiz 2: Other IBM Tools

1.
Question 1

Which products (of those we covered) allow you to build data pipelines using graphical user interface and no coding?

1 / 1 point

○

Only IBM SPSS Statistics.

○

Only IBM SPSS Modeler.

○

OpenScale

◉

IBM SPSS Modeler and Modeler Flows in Watson Studio.

○

All of the above.

Correct

2.
Question 2

Which features of Data Refinery help save hours and days of data preparation?

1 / 1 point

○

Flexibility of using Intuitive user interface and coding templates enabled with powerful operations to shape and clean data.

○

Data visualization and profiles to spot the difference and guide data preparation steps.

○

Incremental snapshots of the results allowing the user to gauge success with each iterative change.

○

Saving, editing and fixing the steps provide ability to iteratively fix the steps in the flow.

○

All of the above.

3.
Question 3

Watson Knowledge Catalog provides what functionality?

1 / 1 point

○

Build data and water pipelines.

○

Catalog all books mentioning Doctor Watson and Sherlock Holmes.

◉

Catalog data and ML assets, help to find relevant assets, keep track of asset lineage, enforce data governance.

○

Process data, build and deploy models.

○

Create data and deploy models into production.

4.
Question 4

Fill in the blank: PMML, PFA, and ONNX are _____.

1 / 1 point

○

Codes for getting rid of undesired data or models.

○

Abbreviations for machine learning algorithm names.

○

Robots that are plotting to take over the planet.

◉

Open standards for predictive model serialization, exchange, and deployment.

○

Passwords for some super-secret system.

Correct

5.
Question 5

Which node must be used in Modeler flows before any modeling node?

1 / 1 point

○

Output node

◉

Type node

○

Derive node

○

Auto Numeric node

○

All of the above

Correct

6.
Question 6

Fill in the blank: Auto Classification node can be used for data with _____.

1 / 1 point

○

No target variables.

○

A categorical target variable.

◉

A continuous target variable.

○

Any target variable.

○

All of the above

Correct

7.
Question 7

Fill in the blank: Auto Numeric node can be used for data with _____.

1 / 1 point

○

No target variables.

○

A categorical target variable.

◉

A continuous target variable.

○

Any target variable.

○

All of the above.

Correct

8.
Question 8

IBM SPSS Modeler evolved from which product?

1 / 1 point

○

Netezza

○

IBM DB2

◉

Clementine

O

Oracle

O

SPSS

Correct

9.
Question 9

Fill in the blank: IBM SPSS Statistics syntax can be created using _____.

1 / 1 point

O

Watson Studio Modeler flows.

O

IBM SPSS Modeler streams.

O

OpenScale

O

AutoAI

●

Graphical user interface of IBM SPSS Statistics product or syntax editor.

Correct

10.
Question 10

AutoAI provides which of the following services?

1 / 1 point

O

Monitoring for fairness, bias, and model drift.

●

Automatic finding of optimal data preparation steps, model selection, and hyperparameter optimization.

○

Cataloging data and model assets.

○

Creating SPSS syntax.

○

All of the above.

Correct

11.
Question 11

OpenScale provides which of the following services?

1 / 1 point

○

Creating SPSS syntax.

○

Automatic finding of optimal data preparation steps, model selection, and hyperparameter optimization.

○

Cataloging data and model assets.

◉

Monitoring for fairness, bias, and model drift.

○

All of the above.

Correct

12.
Question 12

Predictive Model Markup Language (PMML) was created by which entity?

1 / 1 point

○

Microsoft

○

Oracle

○

IBM

○

SPSS

◉

The Data Mining Group

Correct

Graded Quiz

1.
Question 1

Data Refinery provides which of the following services?

1 / 1 point

○

Catalog the data assets.

○

Monitor for bias and model drift.

◉

Visualize and prepare data.

○

Automatically build models.

○

All of the above.

Correct

2.
Question 2

IBM SPSS Modeler includes what kind of models?

1 / 1 point

○

Classification models (for data with a categorical target).

○

Regression models (for data with a continuous target).

○

Clustering models (for data with no target variables).

○

Other kinds of models.

◉

All of the above.

Correct

3.
Question 3

Open Neural Network eXchange (ONNX) was originally created for what models?

1 / 1 point

◉

Deep learning models.

○

Support Vector Machines (SVM).

○

Decision trees

○

Clustering models

○

Regression models

Correct

4.
Question 4

Fill in the blank: If you'd like to schedule a notebook in Watson Studio to run at a different time, you can create a(n) _____.

1 / 1 point

○

API

◉

job

○

asset

○

markdown cell

Correct

5.
Question 5

Fill in the blank: In the _____ tab you can define the hardware size and software configuration for the runtime associated with Watson Studio tools such as Notebook.

1 / 1 point

○

overview

◉

environments

○

settings

○

assets

Correct

6.
Question 6

Fill in the blank: It's a best practice to remove or replace _____ before publishing to GitHub.

1 / 1 point

◉

credentials

○

code cells

○

charts

○

markdown text

Correct