

IS 597-MLC – Machine Learning Pipelines Using Cloud-Based Platforms
Instructor: Jenna Kim & Kevin Trainor
Assignment: Final Project Deliverables
Course Component: Final Project
Grading Rubric

Submission

Timeliness (10 available points)

Requirements

Must be submitted by date and time indicated in the weekly schedule.

| Percent Credit | Description |
|----------------|-------------------------------------|
| 100 | On Time |
| 50 | Up to 3 days late |
| 0 | More than 3 days late |
| 0 | Not submitted or submitted too late |

File Submitted (10 available points)

Requirements

Submit only 1 file.

File type must be .PDF.

File name must conform to all requirements stated in assignment instructions.

| Percent Credit | Description |
|----------------|--------------------------------------|
| 100 | Meets all expectations. |
| 50 | Meets nearly all expectations. |
| 0 | Does not meet expectations. |
| 0 | Not submitted or submitted too late. |

Introduction

Completeness (7 available points)

| Requirements |
|--|
| Must include 2 to 3 research questions. |
| Must be at least 2 to 3 paragraphs in length. |
| Must include background information regarding the topic. |

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|----------------|--------------------------------------|
| 100 | Meets all expectations. |
| 90 | Meets nearly all expectations. |
| 75 | Meets most expectations. |
| 50 | Meets some expectations. |
| 25 | Meets few expectations. |
| 10 | Meets nearly no expectations. |
| 0 | Meets no expectations. |
| 0 | Not submitted or submitted too late. |

Technique (3 available points)

Requirements

Must be written in professional prose organized into paragraphs.

Writing must conform to professional standards for grammar, spelling, and choice-of-words.

Content must be formatted in a professional manner that facilitates easy reading.

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|----------------|--------------------------------------|
| 100 | Meets all expectations. |
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| 75 | Meets most expectations. |
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Literature Review

Completeness (7 available points)

Requirements

Must include at least 4 scientific articles.

Must include 3 to 4 sentences on each article.

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|----------------|--------------------------------------|
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Data

Completeness (7 available points)

Requirements

Must include detailed description of the data set including source of data set, size, total number of records, format, etc.

If your dataset does not include at least 30,000 rows, then you must include an account of your discussions with the instructors approving the number of rows.

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Methodology

Completeness (7 available points)

Requirements

Must include a detailed explanation of data preprocessing include duplicate removal, transforming data, etc.

Must identify the machine learning algorithm used for training the model and the evaluation metrics used for assessing the model performance.

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Results

Completeness (7 available points)

Requirements

Must include detailed description of the test results for each model used in the study.

Must include at least one table or plot that illustrates the test results.

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Discussion & Conclusion

Completeness (7 available points)

Requirements

Must include at least one paragraph that discusses the model, its performance, and its implications for the research question(s) identified in the study.

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GitHub Repo

Completeness (7 available points)

Requirements

The report must provide a GitHub URL that may be accessed by the grader.

The GitHub repo must include the data set and all code used in the study.

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Technique (3 available points)

Requirements

The code and the data set must run as expected when loaded to AWS by the grader.

Code must follow best practices as demonstrated in lectures, tutorials, and code solutions during the course.

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References

Completeness (7 available points)

Requirements

Provides a citation for any article mentioned in the report including those mentioned in the Literature Review section, Methodology Section, etc.

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Technique (3 available points)

Requirements

Must conform to a standard citation style such as APA, MLA, Chicago, etc..

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Total Available Points = 100