

Name CIS 2423 Final Group Project Rubric-202410

Description

Rubric Detail

Levels of Achievement

Criteria	Absent	Insufficient (1-59%) (F)	Emerging (60-69%) (D/D+/C-)	Satisfactory (70-76%) (C/C+)	Competent (77-86%) (B-/B/B+)	Mastering (87-100%) (A-/A)
Deliverable 1: understanding of data analytics [CLO1] (10 Marks)	0 to 0 points	1 to 4.95 points None of the following: • Purpose of data analysis not mentioned. • Selection of programming language is not referenced. • Type of machine learning algorithm to be analyzed is not defined • Variables for data analysis are not mentioned	4.96 to 6.45 points Some but not all the following: • Purpose of data analysis mentioned but not clear. • Selection of programming language is referenced. • Required machine learning algorithm to be analyzed is ill-defined [Too many models mentioned] • Variables for data analysis are mentioned without justification	6.46 to 6.8 points Most but not all the following: • Purpose of data analysis is clearly mentioned. • Selection of programming language is referenced. • Required machine learning algorithm to be analyzed is defined, but without justification. • Variables for data analysis are mentioned with justification but not clear	6.81 to 8.3 points All of the following: • Purpose of data analysis is clearly mentioned. • Sound rationale for choosing the programming language • Required machine learning algorithm to be analyzed is well-defined with appropriate justification. • Variables for data analysis are mentioned with clear justification	8.31 to 10 points All of the following: • Purpose of data analysis is clearly mentioned with appropriate explanation • Thoroughness of programming language chosen is evident. • Student synthesizes information about machine learning algorithm from multiple disciplines and sources and presents them with clarity. • Variables for data analysis are precisely defined with appropriate justification

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Deliverable 2: Apply data analysis and visualization techniques [CLO2] (10 Marks)	0 to 0 points	1 to 4.95 points None of the following: • • No evidence of justification to perform descriptive statistics • Function is not created for descriptive statistics • Sampling techniques are not designed • Exploratory analysis are not performed • Hypothesis tastings are not achieved • Data preprocessing is not devised • Regression models are not functioned • Optimization for regression model is not operated • Best fit model is not enacted	4.96 to 6.45 points Some but not all the following: • Evidence of justification to perform descriptive statistics exist but not clear • Function is created for descriptive statistics having major syntactical errors. • Sampling techniques are designed but not appropriate • Exploratory analysis are performed but ill-designed • Hypothesis tastings are achieved with flaw • Evidence for data preprocessing exist but with inappropriate techniques stylizing	6.46 to 6.8 points Some but not all of the following: • Evidence of justification to perform descriptive statistics exist and clear • Function is created for descriptive statistics having minor syntactical errors. • Sampling techniques are designed • Exploratory analysis are performed with minor error • Hypothesis tastings are achieved with flaw • Evidence for data preprocessing exist but with minor error	6.81 to 8.3 points Most but not all the following: • Evidence of justification to perform descriptive statistics exist with clear elucidation • Function is created for descriptive statistics without flaws. • Sampling techniques are designed with appropriate rationalization • Exploratory analysis are performed with appropriate legends • Hypothesis tastings are achieved appropriate assumption • Evidence for data preprocessing exist but with	8.31 to 10 points All of the following: • Appropriate description and exploratory analysis provided along with exemplary analysis • Sound rationale for chosen hypothesis testing and infer statically in commendable way • Other regression model are handled obtained from different sources • Rigor is evident.

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					applicable techniques	
Deliverable 3: The data model created using classification and clustering algorithm of machine learning [CLO2, CLO3] (42 Marks)	0 to 0 points	1 to 16.95 points <ul style="list-style-type: none"> • Incomplete classification models are presented. • No optimization and recommendation are performed for classification model. • No evidence of any cluster analysis • No strategies are produced from cluster model. 	16.96 to 24.45 points <p>Some but not all the following:</p> <ul style="list-style-type: none"> • Comprehensive classification models are presented but with significant errors • Thorough optimization and recommendation are performed for classification model but with poor validation • Evidence of cluster analysis exists with poor performance • Strategies are derived from cluster model which are insignificant 	24.46 to 28.8 points <p>Most but not all the following:</p> <ul style="list-style-type: none"> • Comprehensive flawless classification models are presented • Thorough optimization and recommendation are performed with appropriate validation for classification model • Evidence of cluster analysis exists with better performance • Strategies are derived from cluster model which are significant but not consistent 	28.21 to 36.3 points <p>All of the following:</p> <ul style="list-style-type: none"> • Implemented all classification models • Major validation works demonstrated on optimization and recommendation of classification model • Appropriate cluster analysis was performed and good strategies are postulated and well-documented. 	36.31 to 42 points <p>All of the following:</p> <ul style="list-style-type: none"> • All classification models are accurate • Perform more classification models from different sources • All cluster models are accurate • Perform more cluster models from different sources • Appropriate interpretation and recommendations are provided

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Deliverable 4: Data Versioning [CLO 4] (26 Marks)	0 to 0 points	1 to 8.95 points • No evidence of creating a new repository and uploading project files to Git Hub • Git is not configured with Git Hub • No evidence for cloning Git hub repo to Git • Push and Pull are not performed	8.96 to 12.45 points Some but not all the following: • Repository model is created but files are not uploaded to repo • Git is not configured with Git Hub • Evidence of cloning exists with appropriate options • Push and Pull are performed which are insignificant	12.46 to 15.45 points Most but not all the following: • Repo are created and project files are uploaded to repo • Git configuration are performed with accordance of Git Hub • Evidence of cloning exists with proper options • Push and Pull are significant but not consistent	15.46 to 19.3 points All of the following: • Repo are created and project files are uploaded • Advanced configuration is performed on Git • Many functions related to cloning is performed apart from basic operations • Push and pull with different scenario are mentioned	19.31 to 26 points All of the following: • Scenario is created and explained about significance of repo creation • Advanced configuration is performed on Git • Different cloning techniques should be elucidated. • Push and pull with different scenario are mentioned • Branching should be exhibited
Written Communication and Video [12 Marks]	0 to 0 points	1 to 4.95 points • Ideas and evidence are disorganized, making relationships unclear • No transitions are used, or are used ineffectively • Conclusion,	4.96 to 6.45 points Some but not all of the following: • Ideas and evidence are sequenced to show relationships • Transitions connect ideas • Conclusion,	6.46 to 8.8 points Most but not all of the following: • Ideas and evidence are sequenced to show relationships • Transitions connect ideas • Conclusion,	8.81 to 10.3 points All of the following: • Ideas and evidence are sequenced to show relationships • Transitions connect ideas • Conclusion, when	10.31 to 12 points All of the following: • Ideas and evidence are logically sequenced to show clear relationships • Transitions are varied and connect ideas,

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		when appropriate, is absent or restates the introduction or prompt • Student has an accumulation of errors in grammar, usage, and mechanics that distract or interfere with meaning • ERD is not organized, missing statement, contains errors, no comments • Video fulfills some of the project scope but with significant requirements missing	when appropriate, follows from and supports the controlling idea • Is free of distracting errors in grammar, usage, and mechanics • ERD is completed, organized with comments, and without errors • Video fulfills some significant requirements of the project scope	when appropriate, follows from and supports the controlling idea • Is free of distracting errors in grammar, usage, and mechanics • ERD is completed, organized with comments, and without errors • Video fulfills most significant requirements of the project scope	appropriate, follows from and supports the controlling idea • Is free of distracting errors in grammar, usage, and mechanics • ERD is completed, organized with comments, and without errors • Video fulfills all significant requirements of the project scope	showing clear relationships • Conclusion, when appropriate, is logical and raises important implications • Is free of distracting errors in grammar, usage, and mechanics • ERD is completed, organized with comments, and without errors • Video completely fulfills or exceeds the project scope

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