



Final Project

The final project assignment requires students to select a data science topic of interest, propose a research question which may be answered using predictive modeling methods, locate a suitable data file related to the data science topic and research question, analyze the data file using appropriate statistical methods and computational procedures and prepare a report summarizing your findings and documenting the procedures used. Students are strongly encouraged to begin plans for this project early in the course and discuss topics of interest with the instructor and employers.

Assessment Rubric

Evaluation Criteria	Possible Score for Each Criteria						
Criteria and Importance	Proficient	Satisfactory	Needs Improvement	Unsatisfactory	No Effort		
Weighting	Exceptional	Clear and detailed	Partial	Limited			
	is defined as:	is defined as:	is defined as:	is defined as:			
	Critical: Demonstrates personal experience, ideas, and imagination Reflective: Awareness of several points of view Sources: Goes beyond required sources	Analytical: Logical arrangement of views Reflective: Awareness of own views and some source views Sources: Goes beyond basic sources	Descriptive: Accurately summarizes source information Reflective: Only source views and information, not personal Sources: Uses only basic sources	Descriptive: Mostly accurate summaries, with some gaps Not Reflective: No source or personal views and knowledge Sources: Minimal or no sources cited			
Criteria 1	10 pts.	8 pts.	6 pts.	4 pts.	0 pts.		
	Mechanics: Free of	Mechanics: Free of	Mechanics: Mostly free	Mechanics: Many	Lack of information and		
Writing Criteria	errors, including	errors, including	of errors, including	errors, including	unsupported		
	grammar and spelling.	grammar and spelling	grammar and spelling	grammar and spelling			
10%							
	Organization:	Organization:	Organization:	Organization:			
	Information is	Information is clearly	Information is partially	Information is difficult			
	exceptionally	understood. APA	understood. APA				

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	understood. APA format followed completely.	format satisfactorily followed.	format partially followed.	to understand. Limited use of APA format.	
Criteria 2	10 pts.	8 pts.	6 pts.	4 pts.	0 pts.
	Selected question	Selected question	Selected question	Selected question did	Lack of information and
Research Question	thoroughly addressed	clearly addressed the	partially addressed the	not clearly address the	unsupported
10%	the course topics, and	course topics, and	course topics, and	course topics, or did not	
	incorporated the course	incorporated the course	integrated some course	incorporate the course	
	concepts.	concepts.	concepts.	concepts.	
0 11 1 2	40 .	22 .	24 .	46.1	
Criteria 3	40 pts.	32 pts.	24 pts.	16 pts.	0 pts.
	Demonstrated mastery	Demonstrated	Demonstrated some	Did not clearly	Lack of information and
Statistical Methods and	of statistical methods	excellence in statistical	skill in statistical	demonstrate skill in	unsupported
Computational	and computational	methods and	methods and	statistical methods and	
Procedures	procedures.	computational	computational	computational	
40%		procedures.	procedures.	procedures.	
Criteria 4	40 pts.	32 pts.	24 pts.	16 pts.	0 pts.
	Thoroughly identified	Clearly addressed the	Partially addressed the	Did not clearly address	Lack of information and
Report	and discussed the topic,	topic, and incorporated	topic and integrated	the topic, or did not	unsupported
40%	and incorporated the	the course concepts.	some course concepts.	incorporate the course	
	course concepts.			concepts.	

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