



Khoury College of Computer Sciences

Data Science Program

Instructor: Dr. Fatema Nafa

Final Project Rubric

DS 5110: Introduction to Data Management and Processing

Category	Unsatisfactory	Satisfactory	Good	Excellent	Points
Project Delivery	Completed <75% of requirements, not on time or incorrect format 0	Completed $\geq 75\%$ of requirements; on time and correct format 3	Completed 80-99% of requirements 7	Completed 100% of requirements; well-organized 10	10
Python Code Quality	Poor organization: inconsistent naming; no comments 0	Basic organization: some PEP 8 standards; basic comments 7	Good organization: most PEP 8 standards; adequate comments 10	Excellent organization: PEP 8 compliant; comprehensive comments 15	15
Data Preprocessing	No/incorrect preprocessing; quality issues not addressed 0	Basic preprocessing with Python libraries; some issues addressed 5	Appropriate use of pandas/numpy; most issues addressed 10	Comprehensive preprocessing: all issues addressed effectively 15	15
Model Selection and Implementation	Inappropriate model; incorrect Python implementation 0	Basic model selection; correct sklearn implementation with minor issues 7	Appropriate model; correct sklearn or other library implementation 12	Well-justified model; flawless implementation; creative use of advanced libraries 15	15
Model Evaluation	No/incorrect metrics; no result interpretation 0	Basic sklearn metrics; some interpretation 7	Appropriate sklearn metrics; clear interpretation 11	Comprehensive evaluation; in-depth interpretation 15	15

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Project Documentation (GitHub)	No/minimal documentation; unclear structure 0	Basic README; somewhat clear structure 5	Good README; well-structured project 7	Comprehensive README; clear structure; reproducible 10	10
Use of Python ML Ecosystem	Minimal use of ML libraries 0	Basic use of pandas, numpy, sklearn 5	Proficient use of common libraries 7	Expert use of ecosystem; advanced libraries 10	10
Creativity and Innovation	No creativity shown 0	Some creative solutions 1	Creative problem-solving; some innovation 3	Highly creative; innovative techniques 5	5
Data Visualization	No/poor visualizations 0	Basic matplotlib/seaborn use 11	Good use of visualization libraries 12	Excellent, informative visualizations; possibly interactive 15	5
Total					100