

Big Data Course

Capstone Project Work Breakdown Structure

For students

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Capstone Project Work Breakdown Structure (WBS)

Today	7/30/2025
Project Team Name	Group 01
Project Topic	Real-Time Big Data Processing with PySpark: NYC Taxi Trip Analysis

[illegible]

	3.1. Design Business Aggregations										x										
	3.2. Develop Gold Layer Script (gold_layer.py)										x	x									
	3.3. Run & Validate Gold Layer Output											x									
Week 2.4. Reporting & Final Check																					
	4.1. Compile Weekly Progress Report (.docx)											x									
	4.2. Design Weekly Progress Slides (.pptx)											x									
	4.3. Final Team Review & Submit											x									
WEEK 03																					
Week 3.1. Data Quality & Advanced Gold																					
	1.1. Develop Data Quality Framework (data_quality.py)												x								
	1.2. Integrate & Validate DQ Framework Output												x								
	1.3. Develop Gold-to-CSV Export Script												x								
Week 3.2. Analytics & Visualization																					
	2.1. Develop Analytics Dashboard Notebook													x							
	2.2. Create & Refine Visualizations (Plots)													x							
	2.3. Run & Validate Output													x							
Week 3.3. Main Pipeline Orchestration																					
	3.1. Develop Main Pipeline Script (main_pipeline.py)														x						
	3.2. Integrate Batch Layers (Bronze, Silver, Gold)														x						

