

Group Weekly Progress Report

Master's in Business Analytics – Culminating Project

Group Name: 1

Week of: 4

1. Group Lead for the Week

Lead Member Name: Joshua Cabal ▾ Celine Abrahamian ▾

2. Individual Contributions

Student Name	Time Spent (hrs)	Tasks Completed	Challenges
Joshua Cabal	10	Extracted and reuploaded dataset with 20 years of data (2004-2023), filtered dataset to minimize missing values while maximizing observations, coordinated dataset finalization, set up primary dataset in GitHub for all members to use. Led our group meeting on Thursday.	
Namrata Patil	10	Developed an initial dataset with 90% data availability per column, adjusted threshold based on group feedback, applied iterative filtering method to maintain as much data as possible.	
Christopher Yeung	10	Created reports on null values, tested different thresholds and regional filters and explored high-income vs. upper-middle-income indicators. Brainstormed research questions based on given indicators.	
Celine Abrahamian	10	Conducted exploratory data analysis, categorized indicators based on potential analytical methods (Time Series, Regression, Classification, etc.), created visuals and basic statistical summaries. Led weekly report prep.	

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3. Key Achievements for the Week

- Consolidated dataset now includes 20 years of data (2004-2023) for a broader scope of analysis.
- Cleaned dataset finalized with 1026 rows and 467 columns, reducing null values to under 2% in most cases.
- Iterative filtering method adopted to maximize data retention without aggressive dropping.
- Successfully categorized indicators into potential analytical techniques to guide research question development.
- Uploaded final dataset (Group1Dataset.csv) to GitHub.

4. Pending Tasks for Next Week

- Finalize research question selection based on available data.
- Begin preprocessing for specific analytical methods (standardization, encoding categorical variables).
- Develop SQL queries to extract relevant insights from the SQLite3 database.
- Conduct correlation analysis to refine the indicator selection.

5. GitHub Submission Details

GitHub Repository Link: <https://github.com/CSUN-MS-BANA/culminating-project-group-1>

Files Updated/Added:

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Submission Instructions

1. Complete this progress report weekly.
2. **File > Download > PDF Document**
3. Upload report [HERE](#)
 - a. **Add File** in the top right
 - b. **Upload File**
4. Keep track of contributions to maintain transparency.