ID	Phase	Task	Owner	Due Date	Status	Progress %	Notes
1	A - Framing	Define problem statement and research questions	Team	Late October	Complete	100	RSS framework defined
2	A - Framing	Identify Key Performance Indicators	Team	Late October	Complete	100	Usage, service quality, equity metrics
3	A - Framing	Document project risks and mitigation	Team	Late October	Complete	100	Geospatial and GTFS gaps documented
4	A - Framing	Create comprehensive indicator list	Team	Late October	Complete	100	Indicators for RSS finalized
5	B - Data/Env	Set up GitHub repository structure	Yuchen	Late October	In Progress	80	Scaffold created
6	B - Data/Env	Create requirements.txt/environment.yml	Yuchen	Late October	In Progress	75	Core dependencies listed
7	B - Data/Env	Set up SQLite database	Eric	Early November	Not Started	0	Pending pilot data
8	B - Data/Env	Design database schema for RSS inputs	Eric	Early November	In Progress	20	Draft schema in progress
9	B - Data/Env	Develop minimal ETL pipeline	Eric	Early November	Not Started	0	Starts after schema done
10	B - Data/Env	Create data dictionary	Eric	Early November	Not Started	0	Document all fields and sources
11	B - Data/Env	Ingest MBTA Speed Restrictions data	Eric	Early November	Not Started	0	Service quality indicator
12	B - Data/Env	Ingest MBTA Monthly Ridership data	Eric	Early November	Not Started	0	By mode and line
13	B - Data/Env	Ingest Fall 2024 Rail Ridership by Stop	Eric	Early November	Not Started	0	Stop-level granularity
14	B - Data/Env	Ingest MBTA Travel Times 2024	Eric	Early November	Not Started	0	Performance indicator
15	B - Data/Env	Ingest 2024 Passenger Survey	Eric	Early November	Not Started	0	Qualitative satisfaction
16	B - Data/Env	Perform data quality checks	Dhanrithii	Early November	Not Started	0	Flag missing/unusual values
17	C - Analytics	Define RSS formula and weights	Yuchen	Mid November	Not Started	0	Create weights.yml
18	C - Analytics	Implement RSS computation system level	Yuchen	Mid November	Not Started	0	Overall MBTA score
19	C - Analytics	Implement RSS computation line level	Yuchen	Mid November	Not Started	0	Red, Orange, Blue, Green lines
20	C - Analytics	Implement RSS computation station level	Yuchen	Mid November	Not Started	0	Individual stations
21	C - Analytics	Conduct sensitivity analysis	Yuchen	Mid November	Not Started	0	Vary weights ±20%
22	C - Analytics	Perform equity gap analysis	Yuchen	Mid-Late November	Not Started	0	Demographics by tract
23	C - Viz	Learn GeoPandas/Folium basics	Dhanrithii	Early November	Not Started	0	1-2 hr spike
24	C - Viz	Create system-level RSS trend chart	Dhanrithii	Mid November	Not Started	0	Time series using Altair
25	C - Viz	Create line-level comparison chart	Dhanrithii	Mid November	Not Started	0	Bar chart by line
26	C - Viz	Create station heatmap	Dhanrithii	Mid-Late November	Not Started	0	Choropleth map
27	C - Viz	Create factor contribution breakdown	Dhanrithii	Mid-Late November	Not Started	0	Stacked bar chart
28	C - Viz	Create equity gap visualization	Dhanrithii	Mid-Late November	Not Started	0	RSS vs demographics
29	D - Package	Write methodology section	Yuchen	Late November	Not Started	0	RSS formula explanation
30	D - Package	Write results section	Yuchen	Late November	Not Started	0	Key findings and charts
31	D - Package	Compile data documentation	Dhanrithii	Late November	Not Started	0	Data dictionary, licenses
32	D - Package	Finalize presentation slides	Team	Late November	Not Started	0	Full presentation deck
33	D - Package	Update Excel progress tracker	Dhanrithii	Late November	In Progress	5	Final updates
34	D - Package	Practice presentation delivery	Team	Late November	Not Started	0	Rehearse 15-20 min presentation
35	D - Package	Final validation and preparation	Team	Late November	Not Started	0	Ready for Dec 1 presentation