### **Resole CIC Project: Deliverables & Due Dates**

| **Deliverable** | **Due Date & Time** | **Description** |
| --- | --- | --- |
| **📄 Initial Project Analysis Report** | **Feb 27, 2025 (1 PM)** | **A 2-3 page report summarizing the project objectives, datasets, preliminary analysis, and planned methodology.** |
| **📄 Draft Project Report for Client** | **Mar 20, 2025 (1 PM)** | **An extended report detailing progress, findings from data analysis, modeling approach, and initial recommendations.** |
| **📊 Live Client Presentation** | **Mar 24, 2025 (11 AM - 1 PM)** | **A 10-minute presentation (5-7 slides) summarizing key findings, methodology, and recommendations.** |
| **📄 Final Project Report** | **Apr 3, 2025 (1 PM)** | **A comprehensive 3000-word report including final analysis, modeling results, insights, and recommendations. Must include a GitHub repo link.** |
| **💻 Technical Code & Implementation Files** | **Apr 3, 2025 (1 PM)** | **Upload all code, data processing scripts, models, and implementation files to a GitHub repository.** |
| **📝 Individual Reflection** | **Apr 3, 2025 (1 PM)** | **A 500-word personal reflection detailing your contributions, challenges, and key learnings.** |

**NOTE:**  
  
We have to make Three:

* initial project report,
* a draft project for the client,
* Final report

To stay on top of everything and manage our time effectively, I suggest we work on the **Initial Draft Project Analysis** and **Final Project Report** simultaneously. That way, we can build a strong foundation for the final report while meeting the formative deadline on **27th February**.

After that, we can focus on the **Draft Project Report for Client** and continue refining the **Final Project Report** in parallel. This will make sure we’re aligned with the client’s expectations before the presentation on **24th March** and have everything ready for the final deadline on **3rd April**.

This way, we’re not starting from scratch for each deliverable but continuously improving on our work.  
  
— Rawad & AI 👍

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### **Resole CIC Project: Week-by-Week Checklist (Starting Feb 14)**

## **✅ Week 1 (Feb 14 - Feb 20): Data Collection & Preprocessing**

☐ Identify and collect relevant **public datasets** (UK deprivation indices, census data, income levels, access to resources).  
☐ Obtain and review **historical operational data** from Resole (if available).  
☐ Clean and preprocess data:

* ☐ Handle missing values.
* ☐ Standardize formats (dates, regions, socioeconomic factors).
* ☐ Merge datasets where necessary.

☐ Perform **initial exploratory data analysis (EDA)**:

* ☐ Generate **summary statistics** (mean, median, distributions).
* ☐ Identify **trends and outliers**.

☐ Start writing **Initial Draft Report**:

* ☐ Describe **datasets and key variables**.
* ☐ Outline **preliminary methodology** for analysis.
* ☐ Add **initial charts and tables**.

📌 **Deliverable:** Submit **Initial Project Analysis Report by Feb 27**

## **✅ Week 2 (Feb 21 - Feb 27): Exploratory Data Analysis & Draft Refinement**

☐ Perform **detailed EDA**:

* ☐ Identify **correlations** between socio-economic indicators and deprivation levels.
* ☐ Create **heatmaps, scatter plots, bar charts** for key insights.

☐ Finalize **Initial Draft Report**:

* ☐ Add **findings from EDA**.
* ☐ Ensure all **visualizations and tables** are clear and well-explained.
* ☐ Review **methodology section** for completeness.

📌 **Deliverable:** Submit **Initial Project Analysis Report by Feb 27**

## **✅ Week 3 (Feb 28 - Mar 5): Modeling & Predictive Analysis**

☐ Select **modeling techniques** (Regression, Time-Series, Clustering).  
☐ Train **models to predict deprivation trends** based on socio-economic factors.  
☐ Evaluate models using **performance metrics** (RMSE, R², Accuracy).  
☐ Begin **building the interactive dashboard**:

* ☐ Choose a tool (Power BI, Tableau, or Python Dash).
* ☐ Create initial **ranking of deprivation levels by region**.

## **✅ Week 4 (Mar 6 - Mar 12): Refining Analysis & Visualizations**

☐ Improve **predictive models** based on initial results.  
☐ Test **feature engineering techniques** to enhance predictions.  
☐ Refine the **dashboard**:

* ☐ Improve **usability and design** for non-technical users.
* ☐ Finalize **ranking system for deprivation levels**.

☐ Begin **Draft Project Report**:

* ☐ Summarize **findings from analysis**.
* ☐ Include **modeling results and recommendations**.

📌 **Deliverable:** Submit **Draft Project Report for Client by Mar 20**

## **✅ Week 5 (Mar 13 - Mar 19): Finalizing Insights & Presentation Prep**

☐ Incorporate **feedback from initial draft & client discussions**.  
☐ Make **final adjustments** to models and dashboard.  
☐ Prepare **Live Client Presentation**:

* ☐ Create **5-7 PowerPoint slides**.
* ☐ Cover **background, key findings, models, insights, and recommendations**.
* ☐ Practice **presentation delivery**.

📌 **Deliverable:** **Present to the Client on Mar 24**

## **✅ Week 6 (Mar 20 - Mar 27): Final Report & GitHub Submission**

☐ Finalize **Project Report**:

* ☐ Add **assumptions, limitations, risk analysis**.
* ☐ Ensure **recommendations are well-supported by analysis**.
* ☐ Format for **clarity and professionalism**.

☐ Complete **GitHub Repository**:

* ☐ Upload **all code, datasets, and documentation**.
* ☐ Include a **README.md explaining project structure**.

☐ Write **Individual Reflection**:

* ☐ Describe **contributions, challenges, and key learnings**.

📌 **Deliverable:** Submit **Final Project Report & GitHub Repo by Apr 3**

## **✅ Final Week (Mar 28 - Apr 3): Submission & Final Checks**

☐ **Proofread and review** all documents before submission.  
☐ Ensure **dashboard and models align with project objectives**.  
☐ **Verify GitHub repository** (correct files, documentation, commit history).  
☐ **Submit all required deliverables** before the deadline.

📌 **Final Submission on April 3! 🎉**