

# 1 Project Charta

## 1.1 Problem Definition

New players coming to Pokemon Go are goign to struggle with the highly complex combat system. There is much to consider such as type weaknesses, charged moves, fast moves, pokemon stats, and more. Another problem that new players will have is identifying the mant different pokemon and learning what their names are. Given there is over 800 pokemon in pokemon go it'll be no easy task. ## Situation Assessment Describe the available resources (personnel, material, (software) tools, infrastructure, etc.) and time as well as restrictions and constraints. Possible risks that may arise during the project are also identified.

## 1.2 Project Goals and Success Criteria

When is the project successful from a client/stakeholder perspective: Formulate (qualitative) objectives, wherever possible, corresponding key metrics and the target values to be achieved within the project.

It is also often helpful to specify what is explicitly excluded from the project objectives (out of scope).

## 1.3 Data Mining Goals

Map the problem definition, datasets to be used and primary objective onto a data mining task, e.g.:

- Classification
- Regression
- Clustering
- Outlier Detection
- Association rule learning (market basket analysis)
- Recommender System
- Visualisation
- ...

Along with the definition of the actual technical problem (category) to be solved, the project goals must be mapped onto suitable quantitative metrics and corresponding target values. For example, for a classification task one might specify an *F-score* of 0.9 as a minimal requirement for an acceptable solution.

Such a requirement should be aligned with the overall project goals and/or literature references or justified by other references, respectively.

## 1.4 Project Plan

Divide the project into individual phases, describe them briefly and draw up a preliminary timetable, e.g. as a Gantt chart:

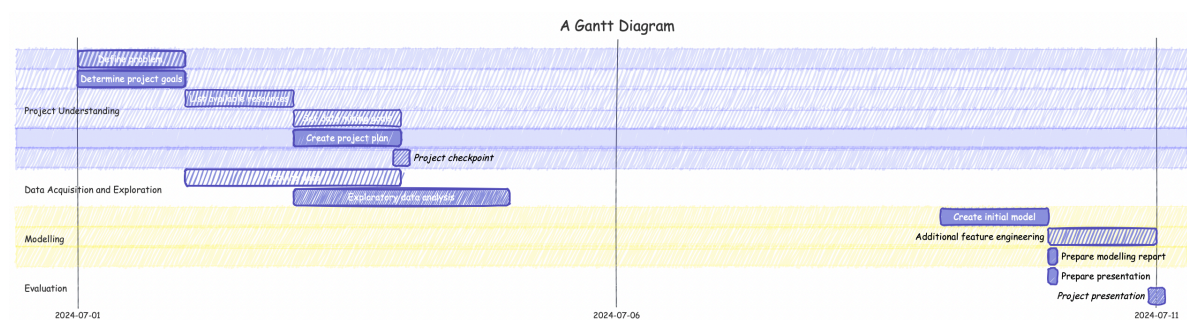


Figure 1.1: Project Plan

See [Mermaid syntax for Gantt charts](#). It might not be displayed correctly in Safari → use Chrome. [Live editor with export functionality](#)

```
gantt
    title A Gantt Diagram
    dateFormat YYYY-MM-DD
    tickInterval 5day
    section Project Understanding
        Define problem,      :a1, 2024-07-01, 1d
        Determine project goals      :a2, 2024-07-01, 1d
        List available resources      :a3, 2024-07-02, 1d
        Set data mining goals      :a4, 2024-07-03, 1d
        Create project plan      :a5, 2024-07-03, 1d
        Project checkpoint: milestone, m1, 2024-07-04, 4m
    section Data Acquisition and Exploration
        Acquire data :a6, 2024-07-02, 2d
        Exploratory data analysis :a7, 2024-07-03, 2d
```

#### section Modelling

Create initial model :a8, 2024-07-09, 1d

Additional feature engineering :a9, 2024-07-10, 1d

Prepare modelling report :a10, 2024-07-10, 2h

#### section Evaluation

Prepare presentation :a10, 2024-07-10, 2h

Project presentation : milestone, m2, 2024-07-11, 4m

## 1.5 Roles and Contact Details

List the people involved in the development work here with their role titles, tasks and contact details