

Work Breakdown Structure

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Domain: Machine Learning

Mode: Online / Remote



Project 1 – Student Placement Prediction

Project Goal:

To develop a predictive model that estimates a student's placement status and calculates expected graduation year.

Phases:

- 1.Requirement Gathering
- 2.Data Preparation
- 3.Model Building & Testing
- 4.Insights & Reporting

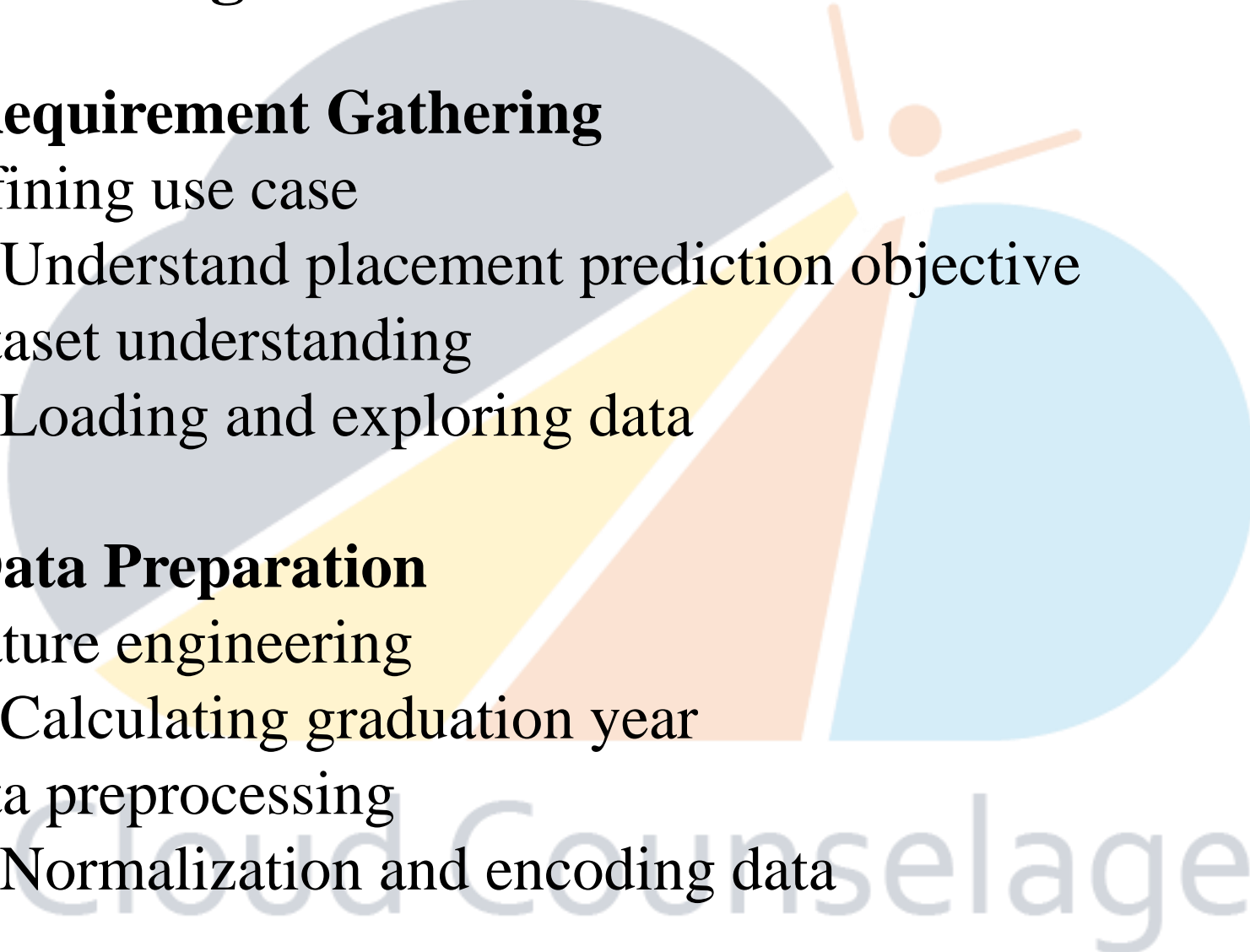
Stages & Activities/Deliverables:

Phase 1: Requirement Gathering

- Stage: Defining use case
 - Task: Understand placement prediction objective
- Stage: Dataset understanding
 - Task: Loading and exploring data

Phase 2: Data Preparation

- Stage: Feature engineering
 - Task: Calculating graduation year
- Stage: Data preprocessing
 - Task: Normalization and encoding data



Phase 3: Model Building & Testing

- Stage: Model training
 - Task: Applying classification algorithms
- Stage: Evaluation
 - Task: Confusion matrix, F1-score

Phase 4: Insights & Reporting

- Stage: Result interpretation
 - Task: Identify key placement factors
- Stage: Report creation
 - Task: Create charts, final report

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Project 2 – Career Path Prediction and Guidance System

Project Goal:

To design a machine learning system that guides students in selecting a suitable career path based on their academic performance and interests.

Phases:

1. Problem Understanding & Data Collection
2. Data Preprocessing
3. Model Development & Evaluation
4. Deployment/Presentation



Phase 1: Problem Understanding & Data Collection

- Stage: Defining problem scope
 - Task: Studying project requirements
 - Task: Defining success metrics
- Stage: Collecting dataset
 - Task: Exploring PS2_Dataset.csv

Phase 2: Data Preprocessing

- Stage: Data cleaning
 - Task: Handle missing values, outliers
- Stage: Feature selection
 - Task: Selecting relevant features

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Phase 3: Model Development & Evaluation

- Stage: Model training
 - Task: Try multiple ML algorithms
- Stage: Model evaluation
 - Task: Use accuracy, precision, recall

Phase 4: Deployment/Presentation

- Stage: Final implementation
 - Task: Code and notebook finalization
- Stage: Visualization
 - Task: Building graphs, career recommendations
- Stage: Presentation
 - Task: Prepare final report and slides

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Thank You