



# UNIVERSITÀ DEGLI STUDI DI TRENTO

*Eagle:* recruiting-sw-microcontroller

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# Chapter 1

## Introduction

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# Chapter 2

## Heading on Level 0 (chapter)

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### 2.1 Heading on Level 1 (section)

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#### 2.1.1 Heading on Level 2 (subsection)

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### **Heading on Level 3 (subsubsection)**

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## **2.2 Lists**

### **2.2.1 Example for list (itemize)**

- First item in a list
- Second item in a list
- Third item in a list
- Fourth item in a list
- Fifth item in a list

### **Example for list (4\*itemize)**

- First item in a list
  - First item in a list
    - \* First item in a list
      - First item in a list
      - Second item in a list
    - \* Second item in a list

- Second item in a list
- Second item in a list

### 2.2.2 Example for list (enumerate)

1. First item in a list
2. Second item in a list
3. Third item in a list
4. Fourth item in a list
5. Fifth item in a list

#### Example for list (4\*enumerate)

1. First item in a list
  - (a) First item in a list
    - i. First item in a list
      - A. First item in a list
      - B. Second item in a list
    - ii. Second item in a list
  - (b) Second item in a list
  2. Second item in a list

### 2.2.3 Example for list (description)

**First** item in a list

**Second** item in a list

**Third** item in a list

**Fourth** item in a list

**Fifth** item in a list

#### Example for list (4\*description)

**First** item in a list

**Second** item in a list

# Chapter 3

## Methods and Algorithms

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# Chapter 4

## Data Description

The dataset used in this project contains detailed information about Uber pickups in *New York City* and is publicly available on Kaggle. It includes records collected throughout 2014, providing a comprehensive overview of the spatial and temporal distribution of Uber rides across the city.

### 4.1 Dataset Overview

The analysis focuses specifically on the following five monthly files:

- `uber-raw-data-may14.csv`
- `uber-raw-data-jun14.csv`
- `uber-raw-data-jul14.csv`
- `uber-raw-data-aug14.csv`
- `uber-raw-data-sep14.csv`

These files were selected because they cover the months with the highest ride activity (from *May to September 2014*), allowing for a consistent and representative analysis of pickup patterns during the warmer and busier period of the year.

### 4.2 Data Structure

Each file contains the same structure, with the following columns:

- **Date/Time** — timestamp of the pickup (e.g., 6/1/2014 0:00:00)
- **Lat** — latitude of the pickup location (e.g., 40.7293)
- **Lon** — longitude of the pickup location (e.g., -73.992)
- **Base** — unique identifier of the operational base (e.g., B02512)

An example of a single record is shown in Table 4.1.

Table 4.1: Example of a single record in the dataset

Date/Time	Lat	Lon	Base
6/1/2014 0:00:00	40.7293	-73.992	B02512

## 4.3 Dataset Characteristics

Overall, each monthly dataset contains *hundreds of thousands of pickup events*, making it suitable for large-scale *spatial-temporal analysis*, clustering, and predictive modeling. The simplicity and consistency of the data format allow for efficient processing and integration of the different monthly files into a unified dataset for subsequent analysis.

# Chapter 5

## Data Exploration

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# Chapter 6

## Modeling and Results

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# Chapter 7

## Discussion

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# Chapter 8

## Conclusion

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# Bibliography

- [1] "AXA Art". 2014. URL: [https://www.artinfo24.com/Downloads/AXA\\_ART\\_Kunstsammler\\_Studie.pdf](https://www.artinfo24.com/Downloads/AXA_ART_Kunstsammler_Studie.pdf) (cit. on pp. 1, 7, 11, 13).
- [2] R De Fusco. *"Storia dell'arte contemporanea"*. Editori Laterza, 2003 (cit. on pp. 1, 7, 11, 13).