Analyzing the Spread of Influenza in Arabic Twitter

King Saud University
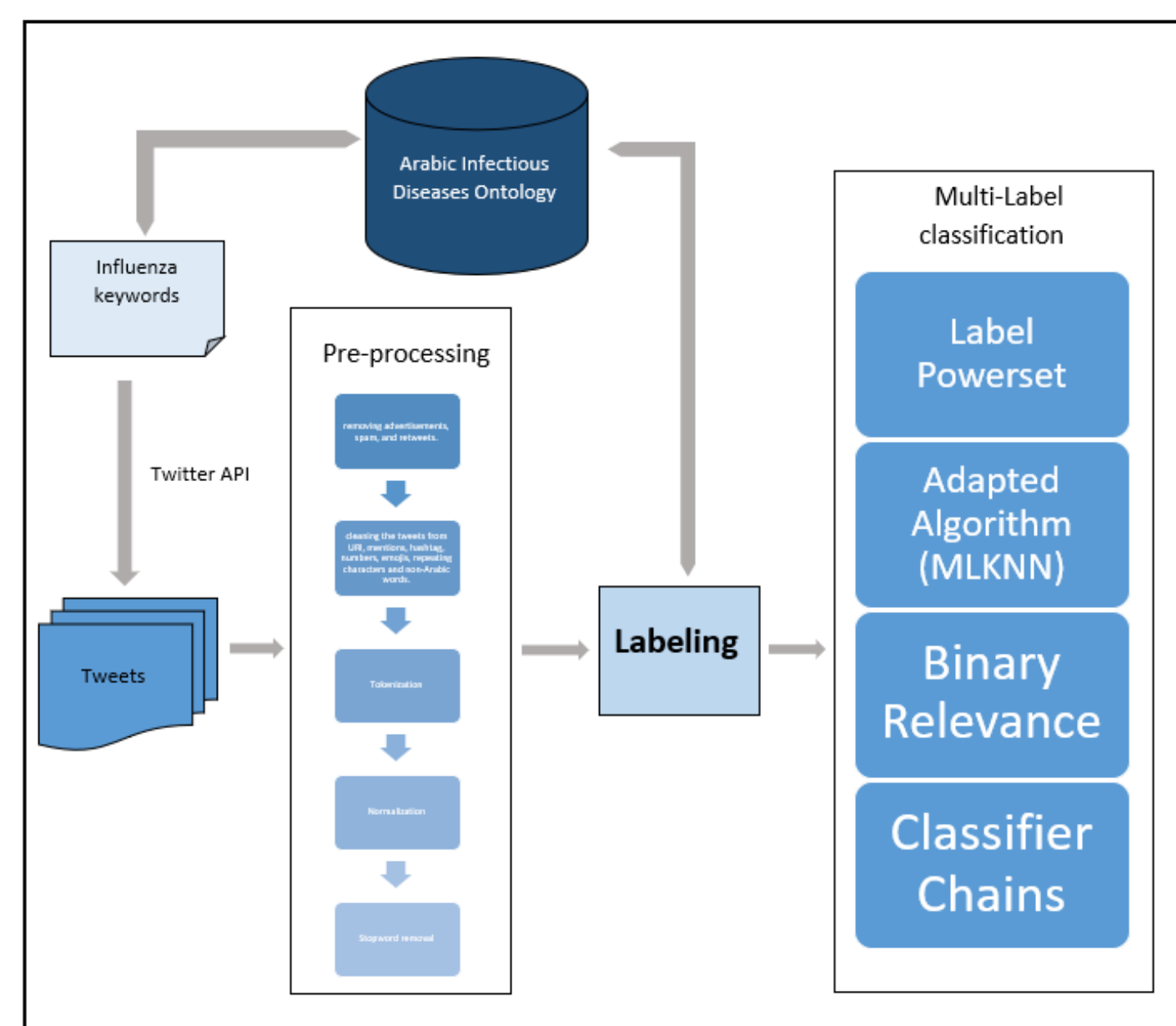
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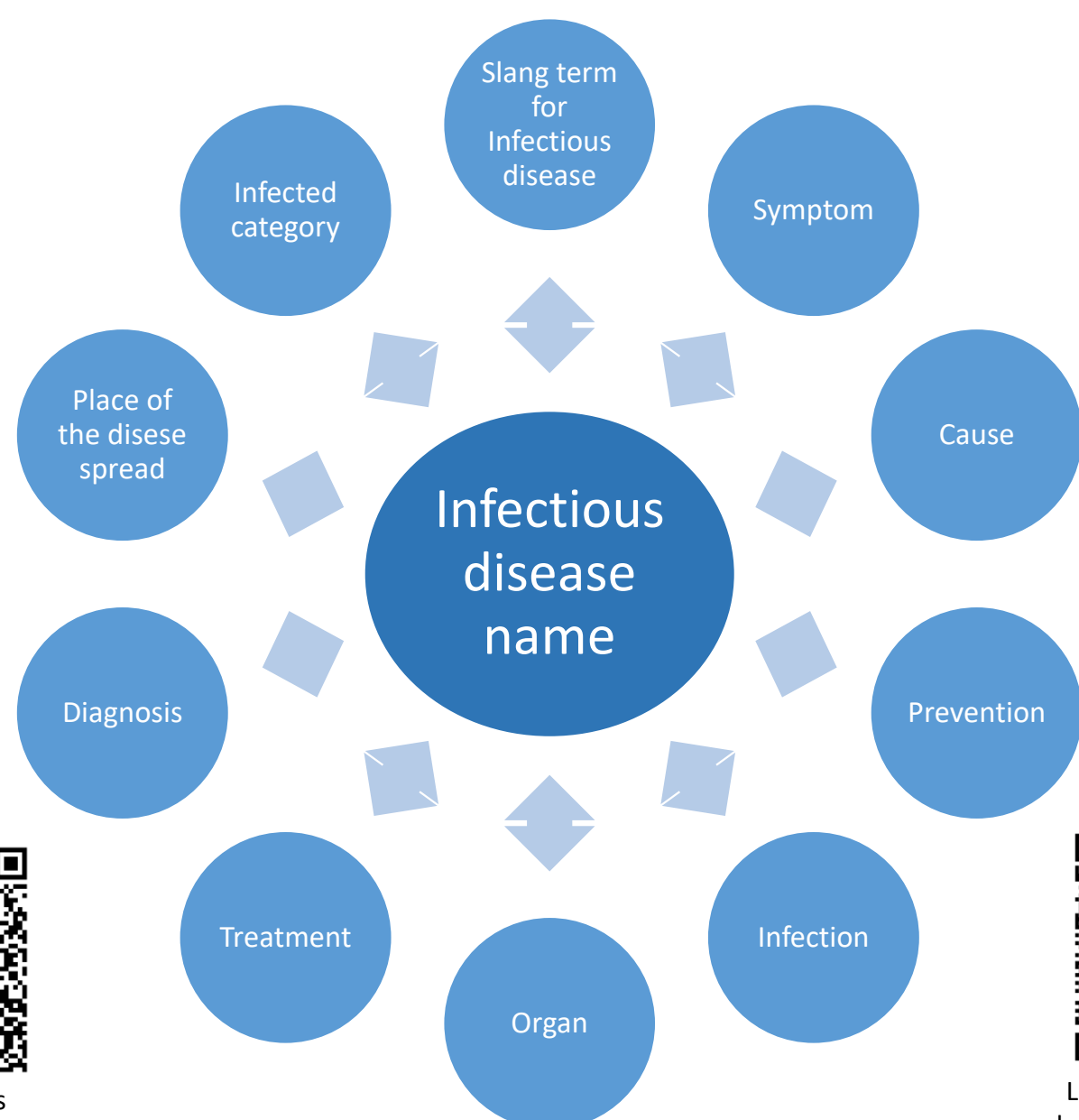
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I. Introduction

- Twitter is a real time messaging platform used by people and organisations to share information on different topics like health.

- It could potentially be useful to analyse tweets for health surveillance purposes in order to reduce reporting lag time compared to the traditional approaches for monitoring infectious diseases.

- There are some properties of the Arabic language that makes it more difficult to analyze than other languages, and NLP resources and methods are less well developed than for English.

- We collect around 2,000 tweets in Arabic related to Influenza and clean them.

II. Arabic Infectious Disease Ontology

Arabic Infectious Disease Ontology

LREC 2020 paper that describe how to develop the ontology

III. Tweets Examples

مانمت غير ساعتين و واضح انها بداية انفلونزا

I slept for two hours, and clearly it is the beginning of flu

أفضل طريقة للوقاية من الإنفلونزا أخذ اللقاح.

The best way to prevent influenza is to take the vaccine.

IV. Methodology

V. Word Cloud

VI. Results