

Pattern Recognition 2020/2021

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COVID-19 Prediction

*Pattern Recognition Project Assignment*

*Milestone I*

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**Table of Contents**

1. Introduction

With COVID-19 being a current and widespread pandemic, which has been affecting our daily lives and infected more than 140 million people worldwide, it has become a vastly researched topic, and thus, we have various datasets that are related to this subject.

In this assignment, we were tasked with developing a software that predicts the outcome of the COVID-19 disease by employing data regarding the patients affected by it, and other related background information. In this first milestone we will be solely treating the data regarding the patient, without utilizing the background datasets. The main objective is to design a binary classifier (described in **Scenario A**, in the statement) which will categorize the outcome for each infected patient (released or not released), making use exclusively of various features extracted from said patient’s information.

1. Data Set

The data set used in this assignment comprised of…

1. Methodology

All steps were implemented and tested in the R2020b version of MATLAB, with the help of the Statistical Pattern Recognition Toolbox (*STPRTool*).

Data Preprocessing

Cassifiers

1. Experimental Results

Text.

1. Conclusion

As evident in the results obtained…