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| The Truth about Twitter | | |
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| **Link to Software Repository:** |  | |

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# Project Statement

Social media sites, such as Facebook, Instagram and Twitter, have been flooded with numerous types of fake accounts in the past few years and each of these have an urgent need to be able to tell the difference between a real user and a bot user. The goal of this project is to create a web application that users can use to find out the likelihood that a Twitter account is real or a type of bot account.

Users of this application will be able to input a Twitter handle then this will be used to hit the Twitter API, retrieving specific information about the account. This data will be passed into a machine-learning model which has been trained on a dataset of real and bot accounts. The model will then decide whether the account is real or not, displaying it’s answer to the screen with relevant statistics.

# Research

What research has been done and what are the outputs? This concerns background research on the topic itself, as well as any research on the data analytics that you plan to perform and the technologies that you wish to use. Use the following headlines to fill in your information. Use one of the standard citation styles consistently throughout this section. Discuss the following:

## Background Research

## Alternative Existing Solutions to Your Problem

## Technologies Researched

## Other Relevant Research Done

## Resultant Findings and Requirements

## Bibliography

Your researched resources. Use Vancouver citation style.

# Approach and Methodology

What is your approach to this project? Are you using any particular software methodology? Eg. Are you delivering design/ code in phases, or are you completing all design up front, followed by all coding? Have you some sections lower priority if time runs short?

# Design

## Technical Architecture Diagram

Insert the architecture for your solution

## Other Design Documents

Insert other design artefacts that explain your system: e.g. Use cases/ ERDs/ Class diagrams

# Prototyping and Development

Explain exactly what prototyping and development you have completed.

# Testing

Explain your planned testing approach: For example: who will be involved, what test scripts are planned, how will the testing be executed.

# Issues and Risks

Explain the main issues / challenges that are unresolved on your project. – and your suggested approach to solving them. This is a critical part of your report to show that you understand what is required to complete the project.

# Plan and Future Work

What are the key deliverables and date for the remainder of the project? Include a GANTT chart or another means of illustrating your project plan.