**Product Recognition**

**Group Name: Team Rocket**

**Group Members:**

|  |  |  |
| --- | --- | --- |
| **First name** | **Last Name** | **Student number** |
| **Ajay** | **Dahiya** | **C0783939** |
| **Akshita** | **Khatri** | **C0785493** |
| **Ma. Angelica** | **Serrano** |  |
| **Jonatas** | **Aguiar Barbosa** |  |

**Submission date: *[Insert submission date here]***

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# **Abstract**

**Canadian Tire is an extensive Canadian company** that sells various products comprising automotive, household products, sports, hardware, and tool categories. The **Problem Statement** is that the Canadian tire website has conventional search methods that need to be modernized better and conveniently. An application was developed, which is named “Product lookup Application.” The client can search for a product by uploading the image on the application, which will fetch that product from the Canadian tire website. The application is developed using Python language and its libraries. The application uses Deep Neural Networks to categorize the images provided to it. The app is further deployed to the public server using the Docker hub using Azure services. Results: (To be continued)

# **Introduction**

**Canadian Tire Corporation Limited** is a Canadian retail company that operates in the automotive, hardware, sports, leisure, and household sectors. The Canadian Tire website has a lot of categories and sub-categories to search for a specific product. On the customer side, it is very time-consuming to search among enormous data and load and to reload the different section pages repeatedly. To make the searching process relatively easy and flexible enough for the client. This problem statement is considered a challenge to work upon. Most people do not want to write the full text on the search bar as they feel lazy or sometimes make grammatical errors while searching, which leads to opening a different page. The discovered solution for the problem is developing a Product Look App that will make surfing easy for the client by just uploading the specific product image they are looking for. **The workflow for the project is the following steps.**

**Input: With the help of the Canadian Tire app, the user takes a photo of the product.**

**Processing: The photo provided will run against the trained model.**

**Output: The model predicts what the item in the photo is and returns it to the database, which produces the client a page with related products.**

// A complete and detailed introduction to the problem or challenge you are trying to assess, review, and resolve. This section should provide readers with all the background knowledge needed to understand the project you have done.

# **Methods**

// Here, you will need to provide technical details about the methods and approaches you have used in the project. You should include both the strategies that worked and the ones that did not work (failures).

Describe the --

Context and setting of the study

Specify the study design

Data set details

Identify the main study variables

Data collection instruments and procedures

Outline analysis methods

**Results**

// Here, you will need to document and present all your key findings concerning the central research question and document your results.

# **Conclusions and Future Work**

// Here, you will document a summary of your results and the most critical developments and also indicate what is remaining from the research activity that you would like to explore in the future (a paragraph or two is enough)

# **References**

// Complete citations for any articles or other materials referenced in the text of the article.