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**Potato Disease detection by using**

**Machine learning**

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| --- | --- |
| **Name:** | **Prof.** |
| Usama Iftikhar Butt | Dr. Muhammad Arif Butt |
| **Roll no.** | **Course:** |
| MSDSF21M020 | Tools & Techniques for  Data Science (DS-522) |

February 14, 2022

**DECLARATION**

I certify that project title **“Potato Disease detection by using Machine learning*”***is under my supervision with student **Usama Iftikhar Butt** roll no. MSDSF21M020 of MPhil Data Science, PUCIT, Pakistan and worked in under my supervision.

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Supervisor’s Name: **Dr. Muhammad Arif Butt**

Data Science**,** Faculty of Computing

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PUCIT, Punjab, Pakistan.

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Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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# Potato Disease detection by using Machine learning

## 1.1. Project Title:

### “Potato Disease detection by using Machine learning”

## 

## 1.2. Project Overview Statement:

New diseases are emerging every year and its becoming difficult for farmers to detect these diseases. This project is aimed to develop an automated system for farmers to detect these diseases. For that we’ll build a machine learning model to predict these diseases. After building the model we’ll deploy it to cloud. Where farmers will be able to use it by using downloadable mobile app or on web.

## 1.3. Objective:

The main idea of the project is to provide farmers an automated way to identify potato diseases.

## 1.4 Tools &Technologies used:

* Neural networks
* Convolutional neural networks (CNN)
* Python
* Jupyter notebooks
* Tensorflow
* Keras
* Matplotlib
* Numpy
* Google cloud
* React.js
* Progressive web app

***1.5 Reference:***

1. https://www.youtube.com/playlist?list=PLeo1K3hjS3ut49PskOfLnE6WUoOp\_2lsD
2. https://github.com/codebasics/potato-disease-classification