DEPARTMENT OF CSE

APEX INSTITUTE OF TECHNOLOGY

**PROJECT PROPOSAL**

**1. Project Title:-**

Potato Disease Detection using Deep Learning

**2. Project Scope:-**

This project aims to develop an efficient Potato Disease Detection system using Deep Learning techniques. The application will involve training a convolutional neural network (CNN) on a comprehensive dataset of potato plant images exhibiting various disease symptoms. The scope includes data collection, preprocessing, and augmentation, followed by model architecture selection and training. The project will involve the integration of the trained model into a user-friendly application. The application will allow users, such as farmers and agronomists, to upload images of their potato plants. The deep learning model will then analyze these images and classify the plants as healthy or affected by a specific disease. The system will provide timely and accurate insights, helping users make informed decisions about disease management and treatment. The project's success will be measured by the model's accuracy in disease detection and its usability in a real-world context. Additionally, the application's user interface and ease of deployment will be crucial aspects of the final deliverable.

**3. Requirements:-**

Requirements for this project are as follow:

* Python
* Tensor-Flow
* Jupyter

**STUDENTS DETAILS**

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| **Name** | **UID** | **Signature** |
| **Abhimanyu** | **20BCS3975** | **Signatures ASR___.jpeg** |
| **Anmol Purwar** | **20BCS4368** | C:\Users\ABHIMANYU SINGH\AppData\Local\Packages\5319275A.WhatsAppDesktop_cv1g1gvanyjgm\TempState\EDF0320ADC8658B25CA26BE5351B6C4A\WhatsApp Image 2023-08-17 at 15.02.15.jpg |

**APPROVAL AND AUTHORITY TO PROCEED**

We approve the project as described above, and authorize the team to proceed.

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| **Name** | **Title** | **Signature**  **(with Date)** |
| Mansi Kajal | Supervisor |  |
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