

Project Design Phase - ||

Technology Stack (Architecture & Stack)

Date	3 November 2023
Project ID	591789
Project Name	PoxVisio: A Deep Learning Expedition into Monkeypox Skin Lesions
Max Marks	4 Marks

Technical Architecture

USERS

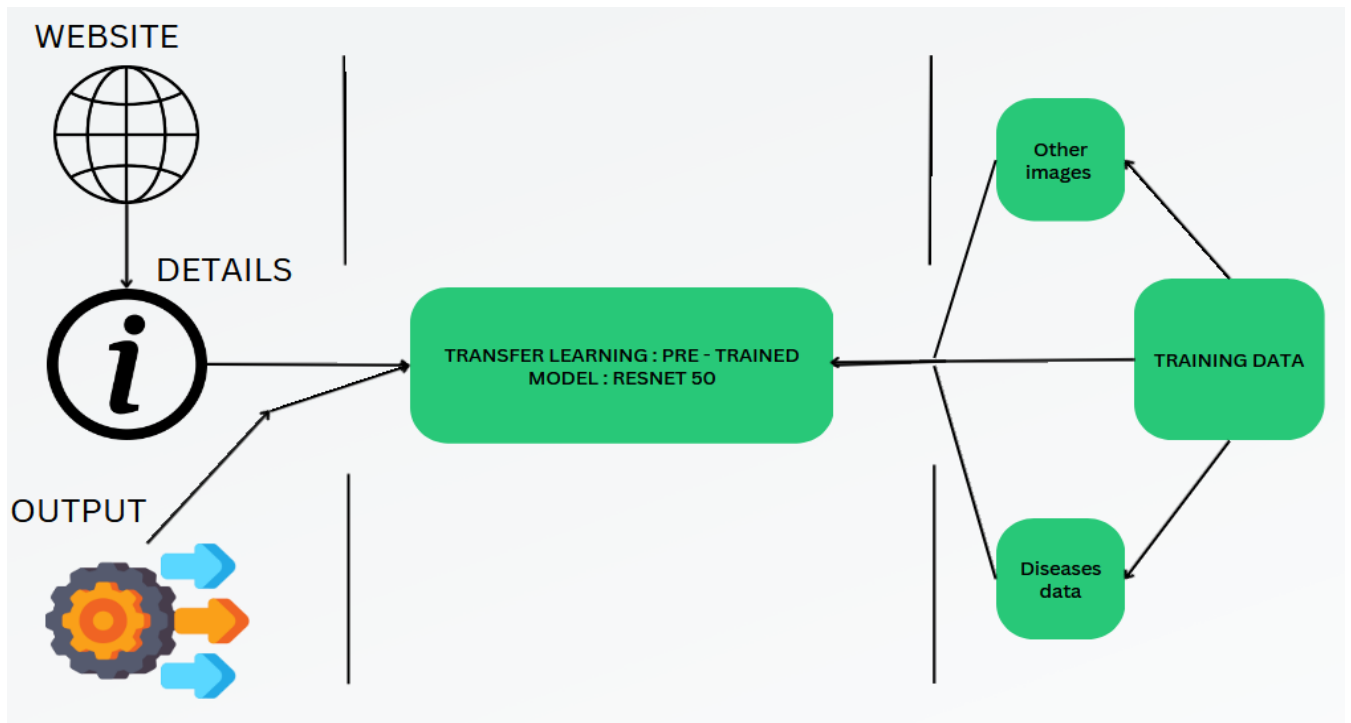


Table-1 : Components & Technologies:

S.no	Components	Description	Technology
1	Website (User Interface)	How user interacts with the model to predict the customer	HTML, CSS, Flask
2	Application	Language used to build the application	Python
3	Deep Learning Model	Model used for classification : RESNET50	tensorflow
4	Application tools 1	Packages used to process the data	-
5	Visualisation	Packages used to visualize the data	Matplotlib

Table-2 : Application Characteristics:

S.no	Characteristics	Description	Technology
1	Open-Source Frameworks	tensorflow is an amazing library with tools dedicated for Deep Learning	tensorflow
2	Scalable Architecture	This Deep learning model can be scaled to input more data and can be introduced to more complex Deep learning models	Keras -> RESNET50
3	Availability	Application is hosted offline wherever downloaded. So there is no need to worry about the availability of the product.	Flask and python.
4	Performance	Provides good results for large scale users as the model is locally hosted at each user	Accuracy Score – calculated during execution