**Project proposal**

**Student names**

Gabriel Dähn Wiland

Frank Kvarme Faanes

**Year of intake**

Gabriel Dähn Wiland: 2022

Frank Kvarme Faanes: 2022

**Intake group**

Gabriel Dähn Wiland: March

Frank Kvarme Ffanes: March

**Study type**

Gabriel Dähn Wiland: Part-Time

Frank Kvarme Faanes: Part-Time

**Project name**

Classification of skin diseases using machine learning

**Project description**

We are working on a machine learning project to develop a computer system that can automatically classify skin diseases and identify disease area. We are training our model on a dataset with images of different skin diseases. Once the model is trained, we will be able to use it to classify new images of skin diseases. This could be a useful tool for doctors or nurses to help them diagnose skin diseases more accurately and efficiently.

The skin diseases the model will identify:

1. Bacterial infections-cellulitis
2. Bacterial infections-impetigo
3. Fungal infections-athlete-foot
4. Fungal infections-nail-fungus
5. Fungal infections-ringworm
6. Parasitic infections-cutaneous-larva-migrans
7. Viral skin infections-chickenpox
8. Viral skin infections-shingles

**Project goals or objectives**

The goal of this project is to create a classification system that accurately distinguishes between different types of skin diseases from images. This can help doctors or nurses identify different skin diseases fast and accurate.

**Source of data**

-Data from a public source (freely available on-line data set or sets)

The data comes from Kaggle.com and the dataset I am using has a public domain license. Here is the link to the dataset I am using: <https://www.kaggle.com/datasets/subirbiswas19/skin-disease-dataset/data>