***AI-Based Localization and Classification of Skin Disease with Erythema***

**Category:***Artificial Intelligence*

**Skills Required:**

* Python
* IBM Cloud
* IBM Watson Studio
* IBM Cloudant DB
* Deep Learning
* Python-Flask
* YOLO

**Project Objective:**

More than 125 million individuals worldwide suffer from psoriasis, and skin cancer rates have been rising quickly over the past several decades, with melanoma being the most varied type of skin cancer. Skin conditions may cause issues in the body, including the transmission of the illness from one person to another, if they are not treated at an early stage. Investigating the contaminated area early on might help to prevent skin problems. It is difficult to create a reliable and effective algorithm for automatically detecting skin illness and its severity since the characteristics of skin pictures vary widely. Skin tone and colour are key factors in identifying skin diseases. Visual differences exist between skin's colour and coarseness. Such photos must be processed automatically for skin analysis, which calls for a quantitative discriminator to distinguish between the illnesses.

We are developing a model that is utilised for the early identification and prevention of psoriasis and skin cancer in order to solve the aforementioned issue. In general, the diagnosis of skin diseases depends on many traits including colour, form, texture, etc. Here, a person can take skin-related pictures, which will subsequently be transmitted to a trained model. The model examines the image to determine whether or not the subject has a skin condition.