On The Surface

Troubles in Dermatology Diagnosis

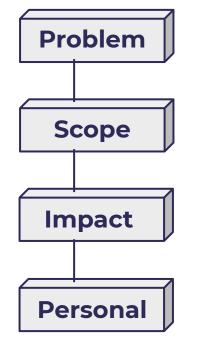
Track 3

HACKGURLS

Margaret, Paige and Polina



Introduction



How to quickly diagnose skin conditions in a variety of settings.

Only clinical data used to provide on the spot results from on the spot observations.

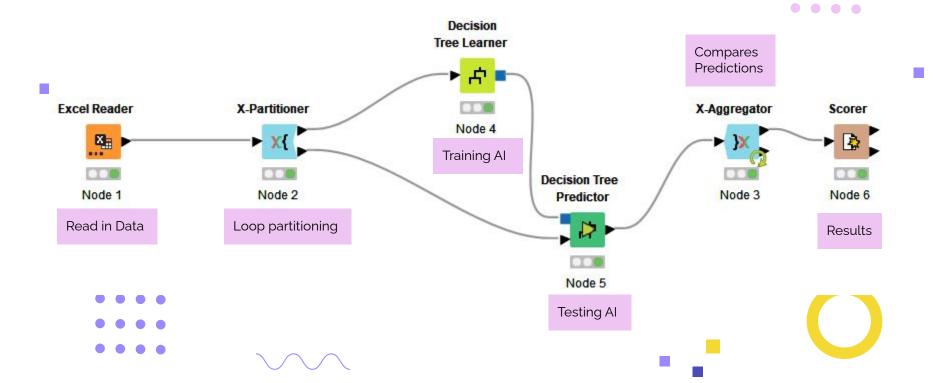
Al software that facilitates quick, easy, and accessible diagnosis.

Aids in limiting misdiagnosis and uncertainty "which I have personally experienced with one of these conditions"



MODEL

0 0 0



Model Analysis



Confusion Matrix

Row ID	seboreic dermatitis	psoriasis	lichen planus	cronic dermatitis	pityriasis rosea	pityriasis rubra pilaris
seboreic dermatitis	47	4	0	6	4	0
psoriasis	9	98	0	1	3	1
lichen planus	0	0	69	1	2	0
cronic dermatitis	11	0	1	38	1	1
pityriasis rosea	6	2	0	3	38	0
pityriasis rubra pilaris	2	1	0	3	0	14



0.788

Cohen's Kappa



83.1 %

Model Accuracy





Citations



GITHUB Link:

- https://github.com/paigemcfar/Hackathon

Data Set:

Itler, N. and Altay Guvenir, H., 2022. UCI Machine Learning Repository: Dermatology Data Set. [online] Archive.ics.uci.edu. Available at: https://archive.ics.uci.edu/ml/datasets/Dermatology [Accessed 9 January 2022].

Images:

https://www.canva.com/

Resources:

KNIME Hub. 2022. Training a Decision Tree – kathrin. [online] Available at:
 https://hub.knime.com/knime/spaces/Examples/latest/04_Analytics/04_Classification_and_
 _Predictive_Modelling/07_Decision_Tree~wjBRbBRnIy6fu4gw> [Accessed 9 January 2022].