

# DISEASES PREDICT

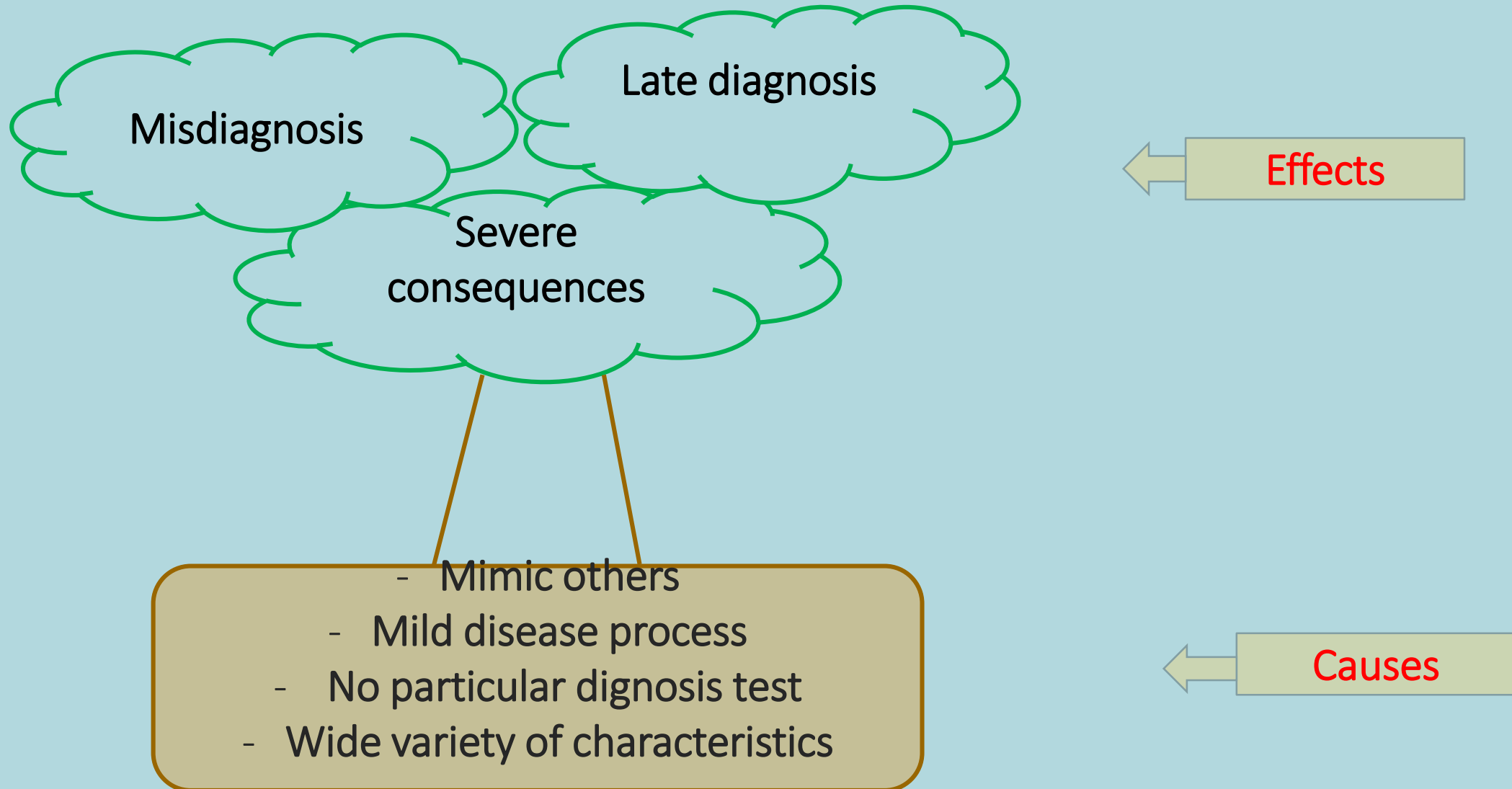
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# WHAT?

Prevalence of misdiagnosis: 1 out of 20 adults in 2019 (Docpanel)



# CASE STUDY: Dermatology

## Differential diagnosis of Erythematous-squamous diseases

Pityriasis rubra pilaris



Psoriasis



Pityriasis rosea



Chronic dermatitis



Lichen planus



Seborrheic dermatitis



## 34 features

### Clinical Attributes

Erythema	Oral mucosal involvement
Scaling	Knee and elbow involvement
Definite borders	Scalp involvement
Itching	Family history
Koebner phenomenon	Age
Polygonal papules	
Follicular papules	

### Histopathological Attributes

Melanin incontinence	Elongation of the rete ridges
Eosinophils in the infiltrate	Thinning of the suprapapillary epidermis
PNL infiltrate	Eponiform pustule
Fibrosis of the papillary dermis	Munro microabscess
Exocytosis	Focal hypergranulosis
Ecanthosis	Disappearance of the granular layer
Hyperkeratosis	
Parakeratosis	
Clubbing of the rete ridges	

# HOW?

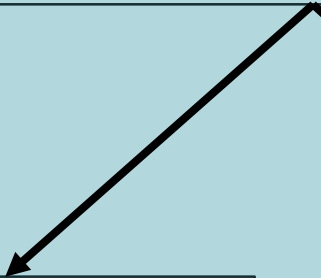
Development of a model



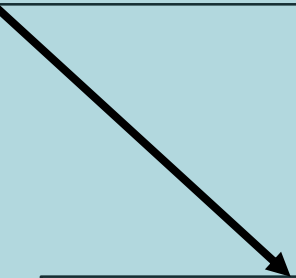
Creation of database



Development of interfaces



Add new patient



Diseases predict

Explore

go to

- ☐ Make a prediction
- ☒ Add new patient

Enter erythema

Enter scaling

Enter definite\_borders

Enter itching

Enter koebner\_phenomenon

Enter polygonal\_papules

Explore

go to

- ☒ Make a prediction
- ☐ Add new patient

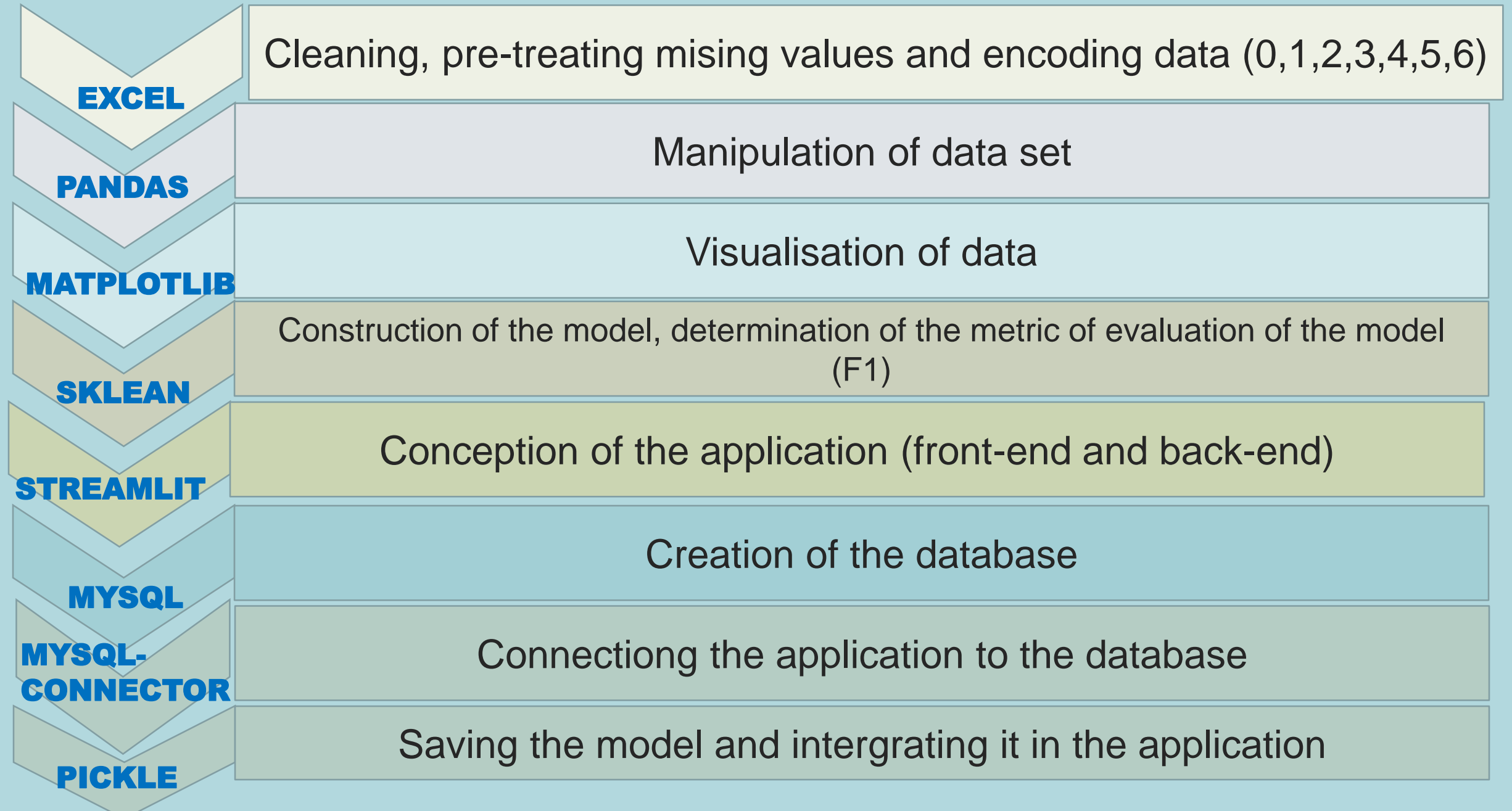
## Diseases Predict

Enter patient\_id

Predict

Made with Streamlit

# TOOLS USED



**THANK YOU**