



World Health
Organization

Predicting Malaria



Jonathan Fetterolf

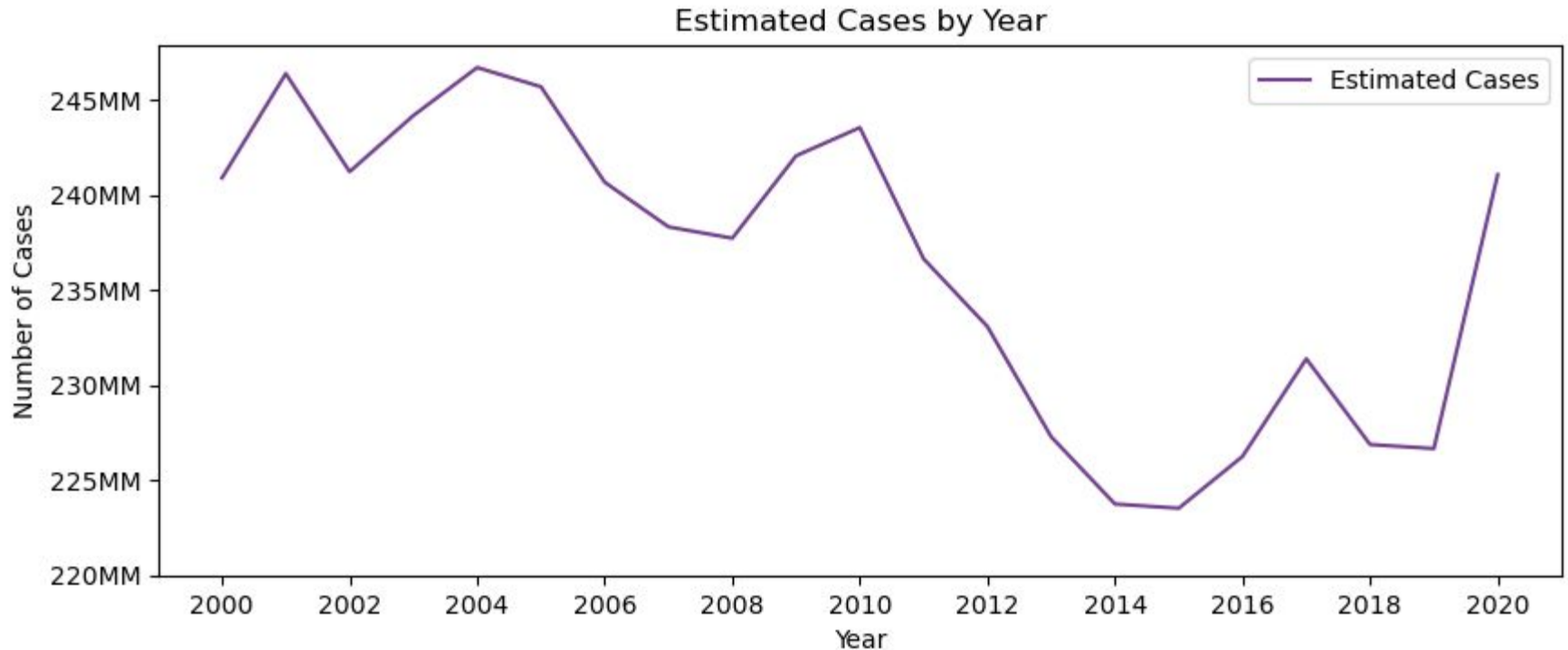
Outline

- Business Need
- Objectives
- Data & Model
- Findings
- Recommendations



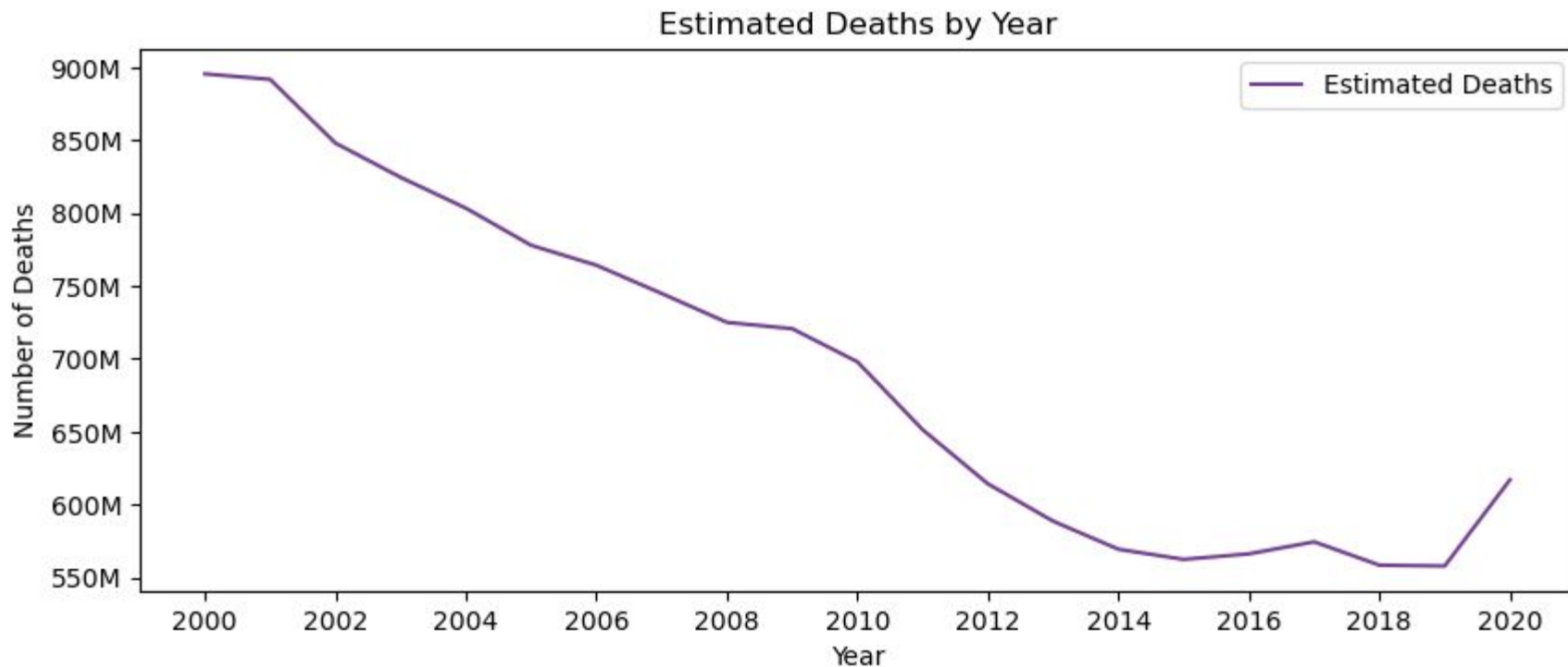
Malaria Statistics

- 240 Million Cases



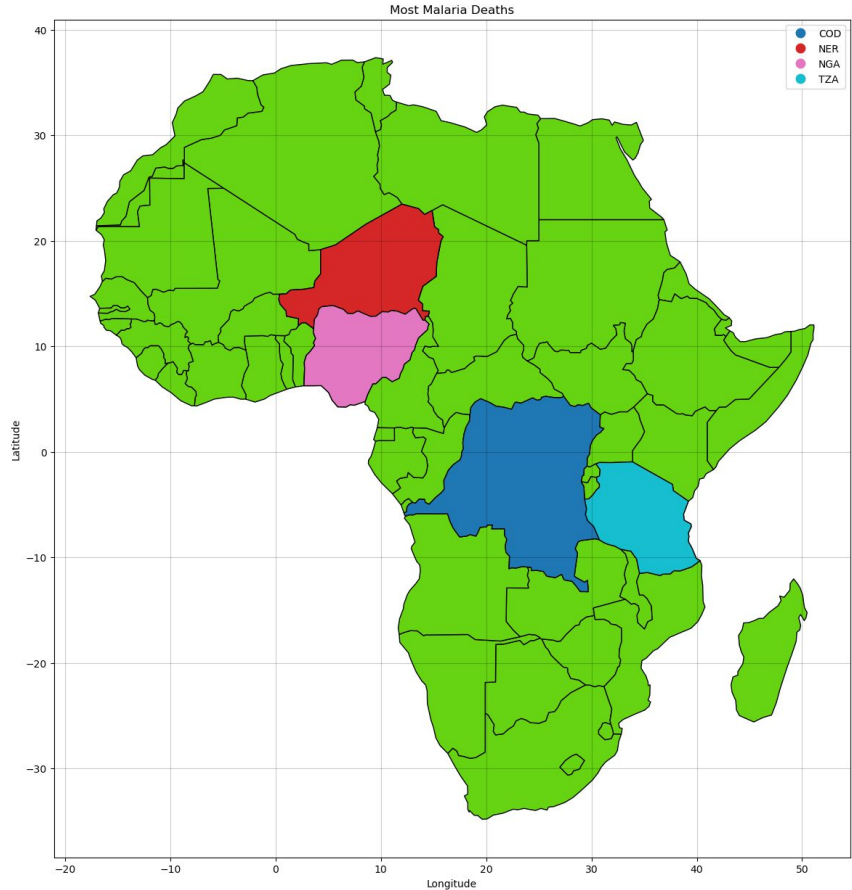
Malaria Statistics

- 620 Thousand Deaths



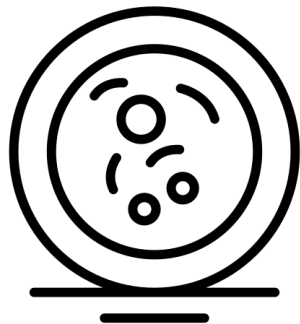
Malaria Statistics

- Nigeria
- Democratic Republic of the Congo
- United Republic of Tanzania
- Niger

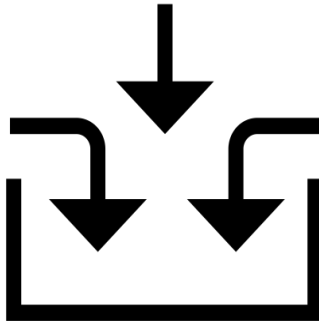


Objectives

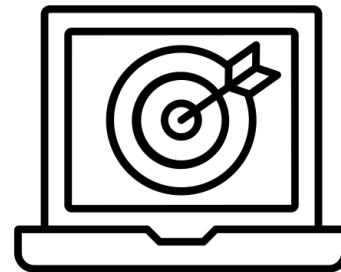
Data



Model

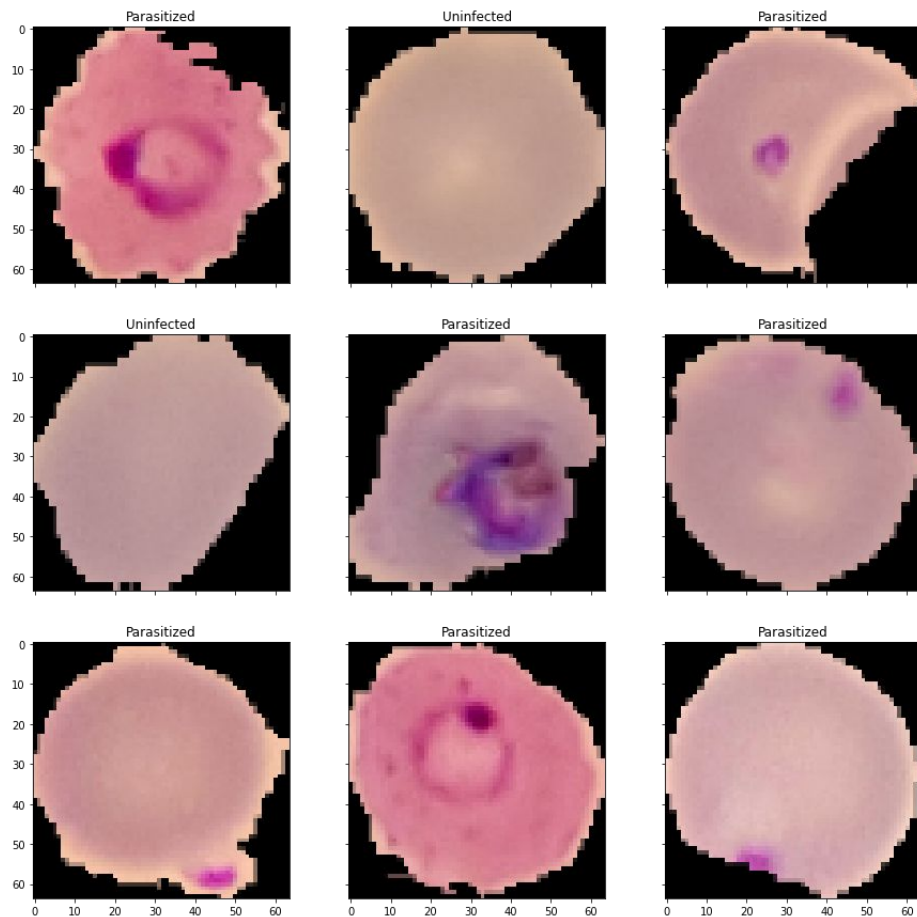


Prediction



Data & Model

- Images
- Classes
- Model



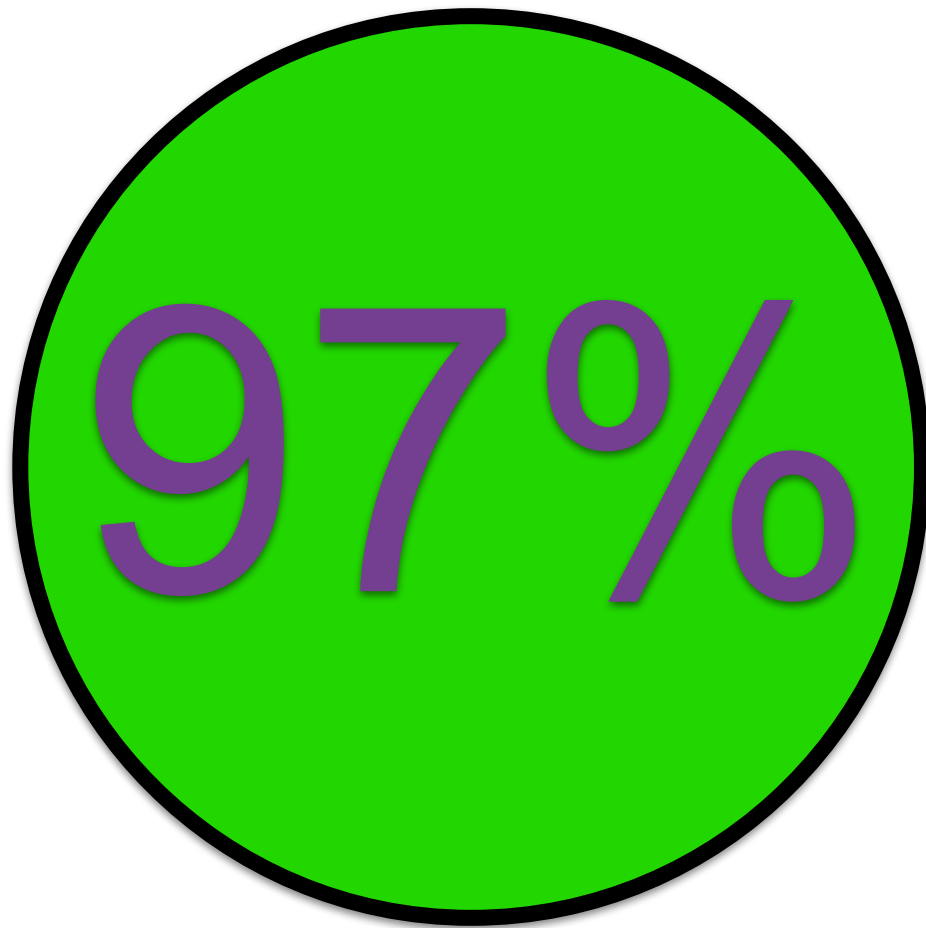
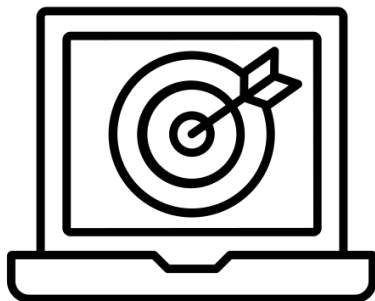
Cost of Errors

- False Negatives
- Early Diagnosis/Treatment
- USD \$3-6
- Minimal Side Effects



Findings

- Final Model Accuracy



Next Steps

- More Data
- Preprocessing
- Parasitic Burden
- Use the Model





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Linked  in

 GitHub