Galen
AI Medical assistant

Mixtral 8x7B: 24 Hours Challenge

Presented by Ahmed AL-Rufai & Alexis Rotureau

TABLE OF CONTENTS

THE PROBLEM

- **Increasing number** of new cancers: 150,000 new cases of melanoma of skin in 2020. (1)
- When **detected early**, the 5-year survival rate for melanoma is 99 percent. (2)
- **Disparities** in the detection (2)

References:
1 - (https://www.wcrf.org/cancer-trends/skin-cancer-statistics/)
2 - (https://www.skincancer.org/skin-cancer-information/skin-cancer-facts/)

OUR SOLUTION

- **<u>What?</u>**
  - AI Medical assistant tool to help patients immediately having more information on a possible skin lesion
- **<u>Why?</u>**
  - Early detection reduces the risk and increase the survival rate
- **<u>For who?</u>**
  - Everybody who suspects a abnormal spot and can upload a photo of it
- **<u>How?</u>**
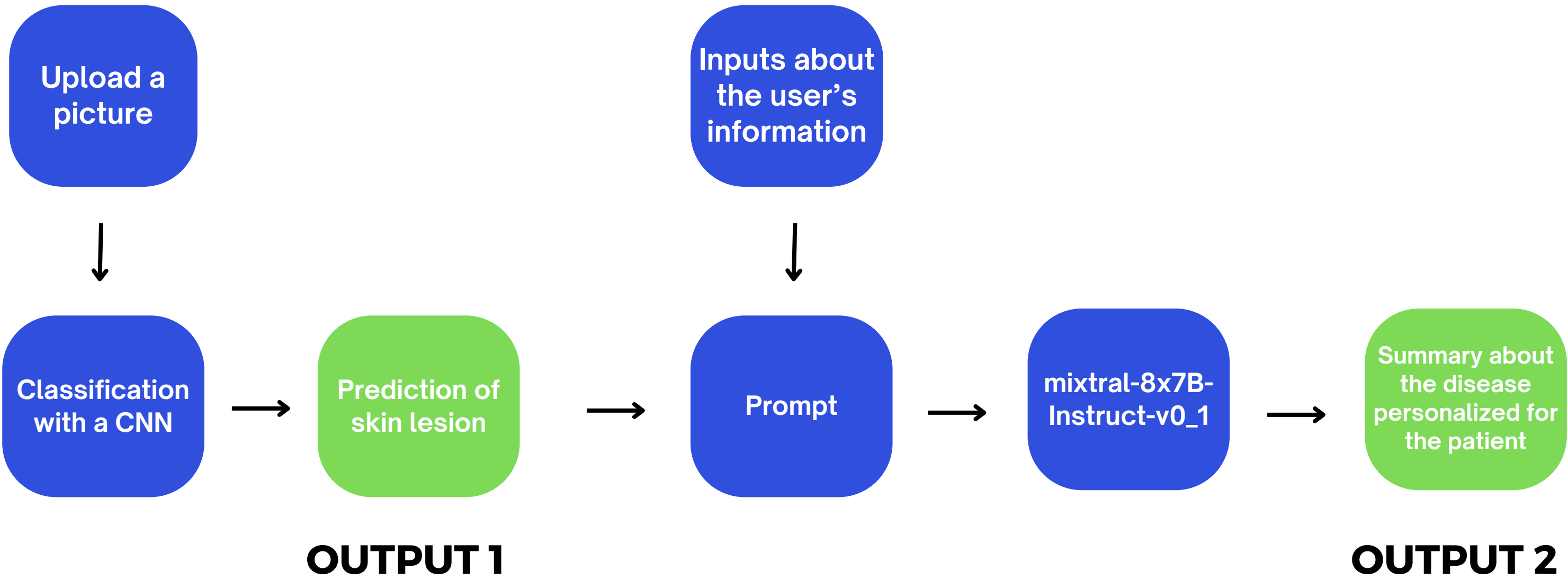 - Upload a picture, answer few questions

THE REVENUE MODEL

- Annual treatment costs ranged from to $900M per year in the US.

Reference:
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4495902/

Partnership with health institutions and authorities to increase early detection of skin cancer and the risk of developing skin cancer

THE WORKFLOW

DEMO TIME

Streamlit App: https://galen-mixtral-hackathon.streamlit.app/
GitHub Repository: https://github.com/guy-977/galen-mixtral-hackathon

CONCLUSION

- The PoC for Galen, an AI medical assistant, is currently focused around skin lesions.
- The upcoming stages involve enhancing the model's capabilities and extending its scope to encompass various diseases.
- This expansion aims to assist patients in detecting potential skin lesions at the earliest possible stage and reducing the risk of potential disease.

OUR TEAM

Ahmed is a medical student and software developer, and has background in web development and machine learning.

Alexis is a French data scientist in pharma industry for 3+ years currently living in Toronto, Canada.

Ahmed Alrefai

Software Developer

Alexis Rotureau

Software Developer

THANK YOU
FOR WATCHING