



XAI-empowered Breast Cancer Diagnosis System



Problems



High Risk of Misdiagnosis

Patients can expect low accuracy in their diagnosis test due to complexity and hardness of the task for practitioners



Limited Healthcare Accessibility and Patient Engagement

Patients have to choose between high costs of speedy diagnosis in private hospitals and waiting for months to get in the line in public ones

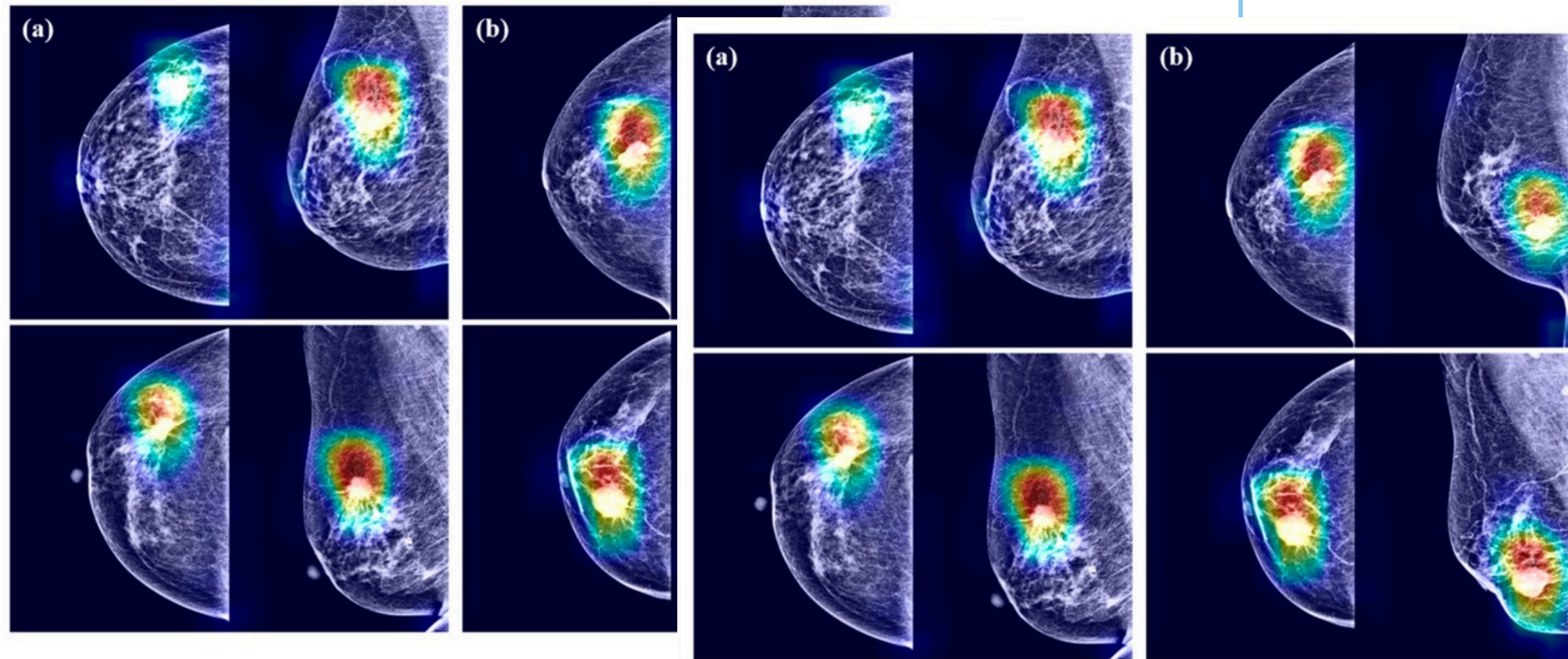


Costs of Analysis Operations

Institutions might face the need to handle quick increase in the number of patients by employing more experts and paying them high salaries

Solutions

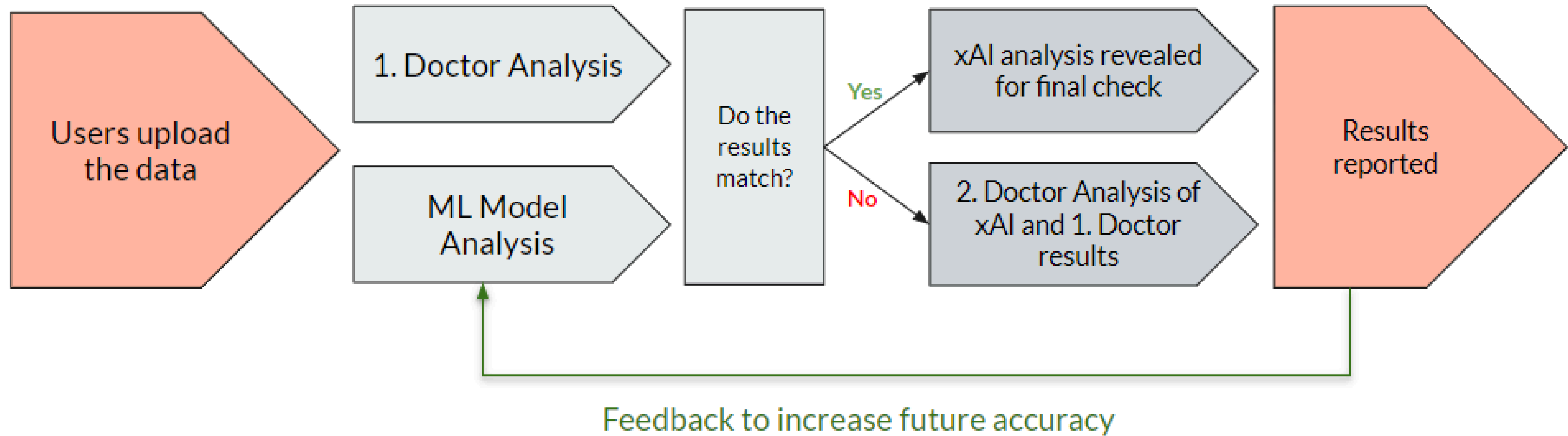
Using XAI Models



Optimum Collaboration of Doctors and AI



Solutions



Target Market

Breast Cancer Analysis

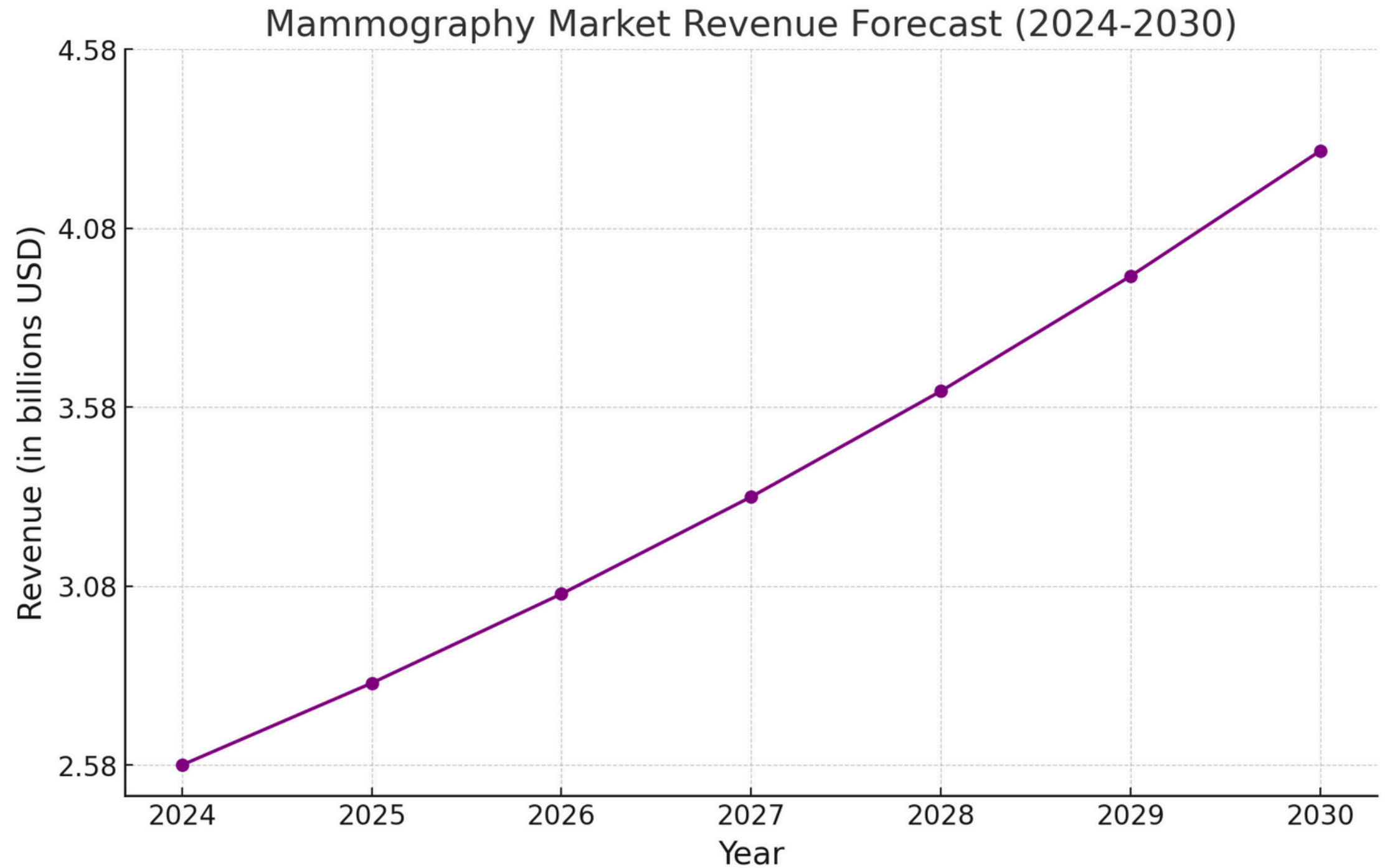
Women

14.3 million women (age 40-69), which is approximately 33.5% of the total female population in Turkey [2].

Institutions

Ministry of health lodges tender for 660.000 analysis per year. 500 private hospital provides mammography analysis in Turkey.

Size of the Market



[1] Female population by age group Our World in Data. Available at: <https://ourworldindata.org/grapher/female-population-by-age-group> (Accessed: 28 October 2023).

[2] Toplumsal CİNSİYET istatistikleri gender statistics 2022. Available at: https://www.tuik.gov.tr/media/announcements/toplumsal_cinsiyet_istatistikleri.pdf (Accessed: 28 October 2023).

Indirect Competitors

Second Medical Opinion Market

- ◆ Hastalar Soruyor
- ◆ Medicopin.com

Doctor Assistance Market

- ◆ ICTerra
- ◆ Screen Point Transpara
- ◆ Siemens Syngo Breast Care

Business Model

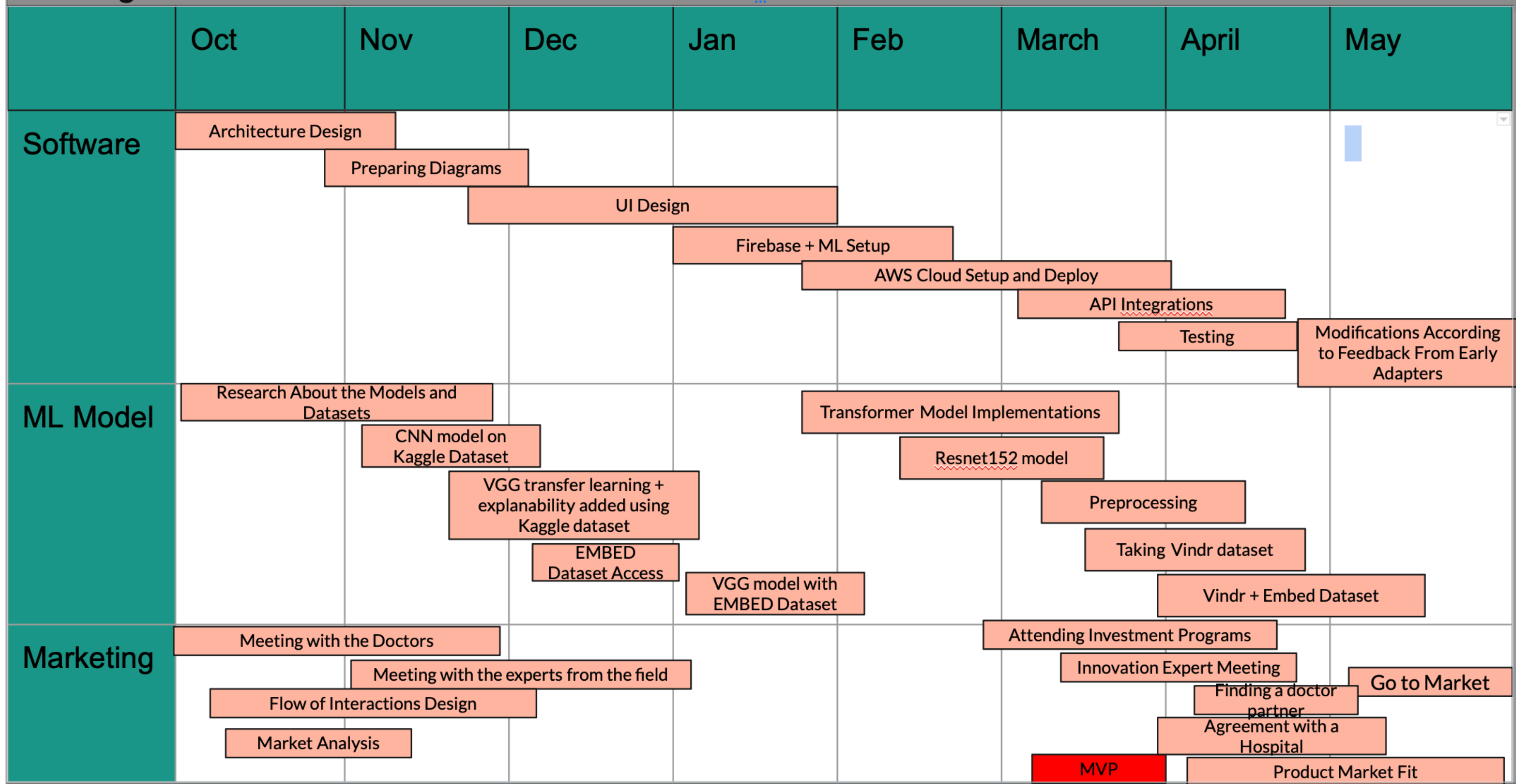


Fee-for-service (FFS)

- Patients will be charged based on the services they receive, specifically for each check-up and consultation session. The fees can vary depending on factors such as the number of mammograms analyzed and the level of interaction with the doctor.



Project Plan





Future Roadmap



July 2024

Deployment of doctor assistance tool



August 2024

Deployment of the whole system



September 2024

Marketing and Advistatement



OUR TEAM



Omar Hamdache

Full-Stack Developer



**Mahmut Furkan
Gön**

Full-Stack Developer



**Ahmet Arda
Ceylan**

Marketing & ML
Engineer



Mustafa Yetgin

ML Engineer



**Ömer Kağan
Danacı**

Software Engineer



**Doç. Dr. Mehmet
Ali Can**

Radiology Expert



THANK YOU

Project Website:

medixai.netlify.app