



NEUROANALYSE



CMPE 492
No:2

AI-Powered Early Detection of Alzheimer's Disease

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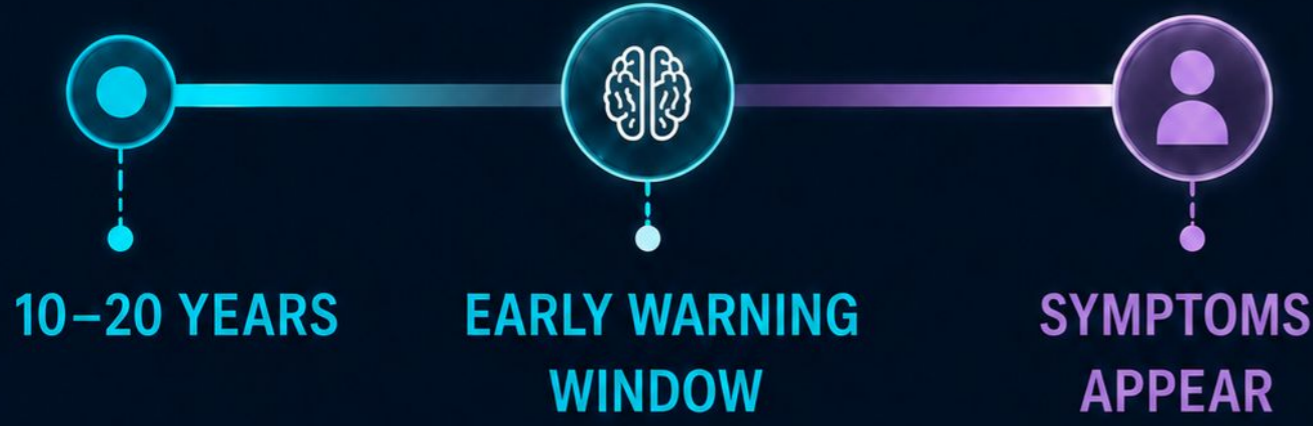
1 Why It Matters

- Alzheimer's can begin silently years before symptoms appear.
- Early detection enables monitoring, treatment planning, and timely care.

Today:
57 million people

By 2050:
153 million people

ALZHIEMER'S TIMELINE



2 The Challenge

Early assessment is often costly and limited.

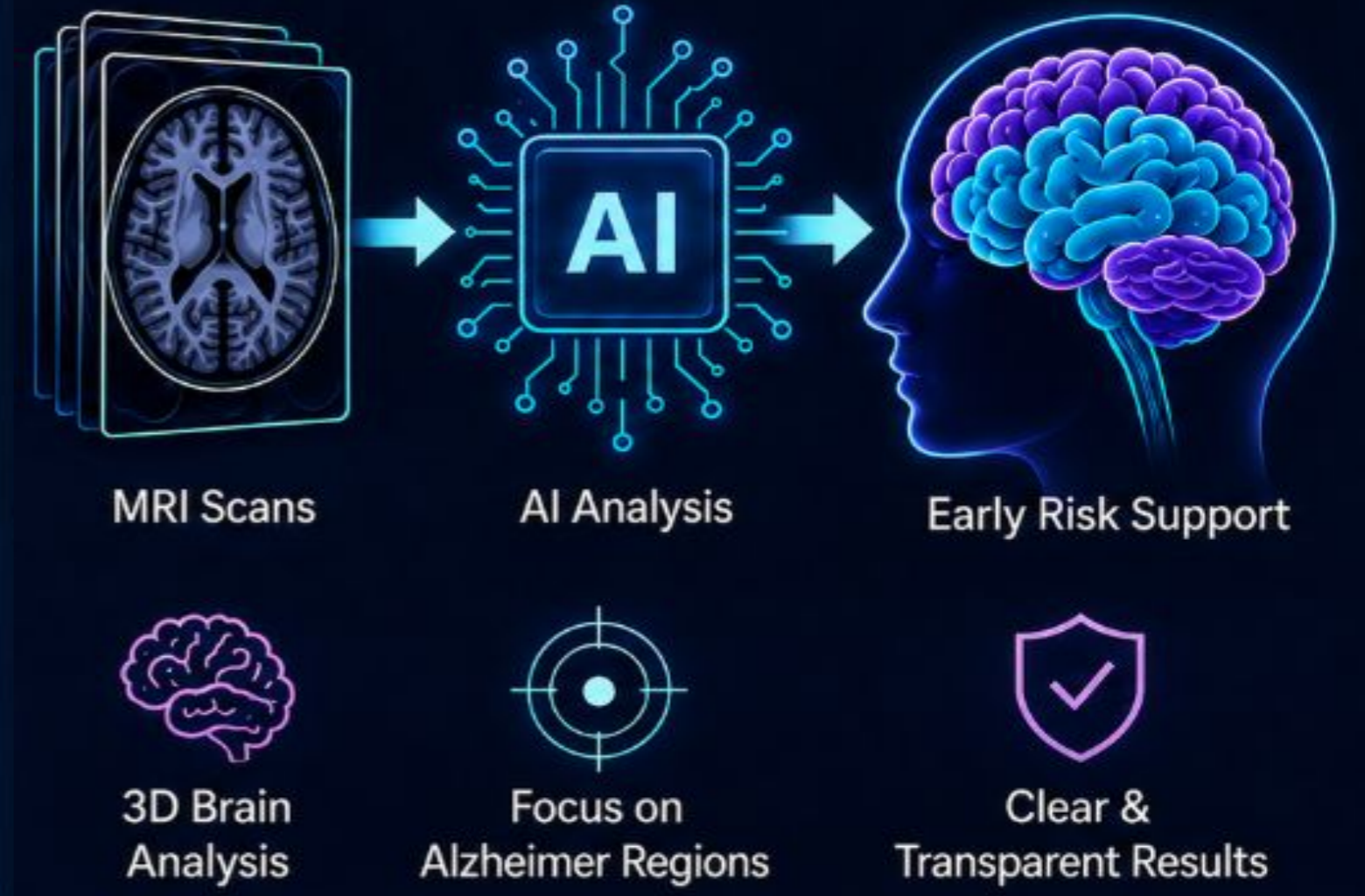
Amyloid-PET can be expensive and unavailable in many clinics.



3 Our Idea

NeuroAnalyse turns MRI scans into explainable risk support.

It analyzes the brain in 3D and focuses on Alzheimer-related regions.



4 How It Works

1 Input Brain MRI



MRI scan is uploaded.

2 Preprocess & Clean

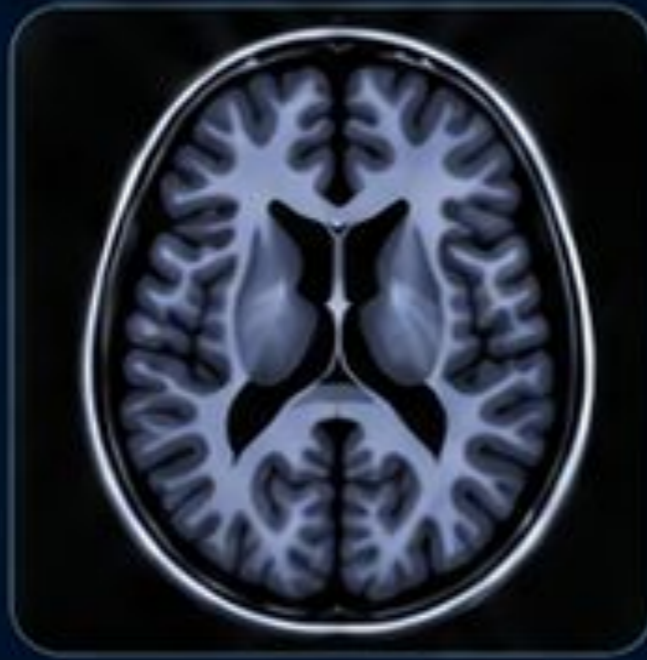
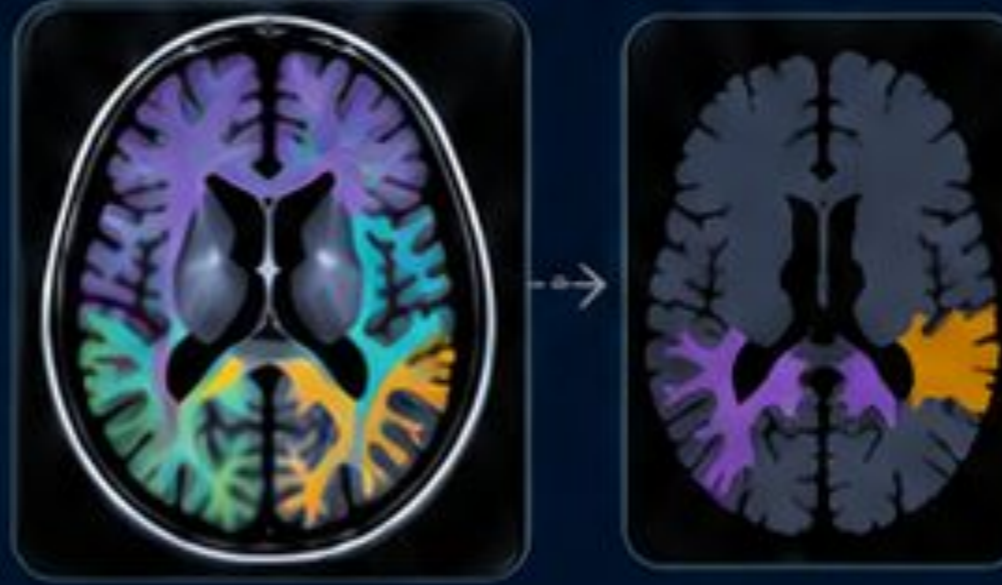


Image is prepared for analysis.

3 From Full MRI to Masked MRI



Focused on Alzheimer-relevant areas

4 3D Brain Analysis

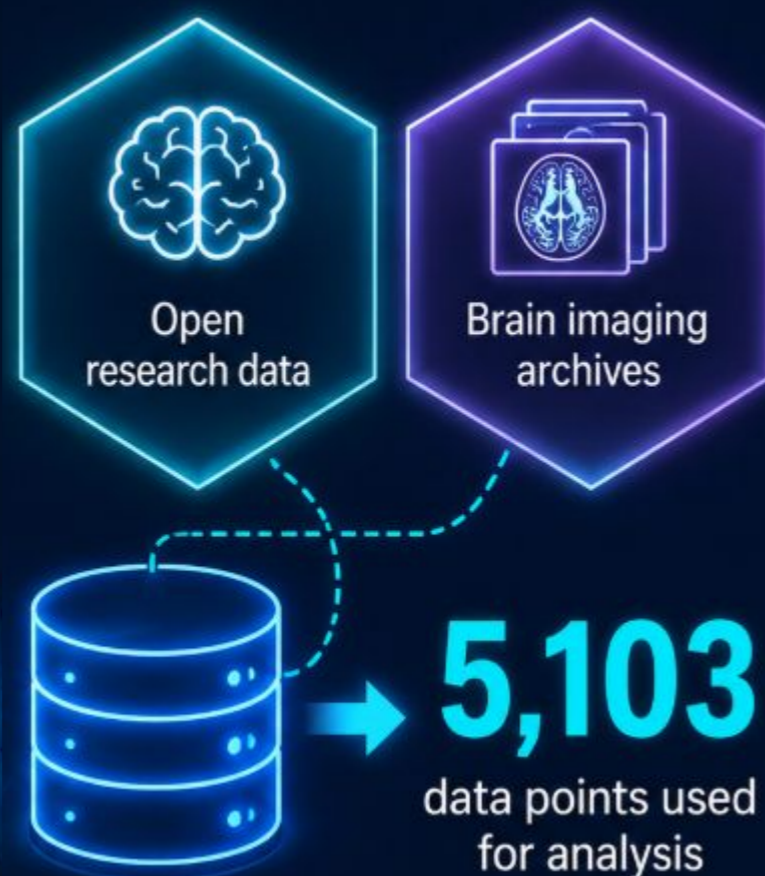


Brain volume is analyzed.

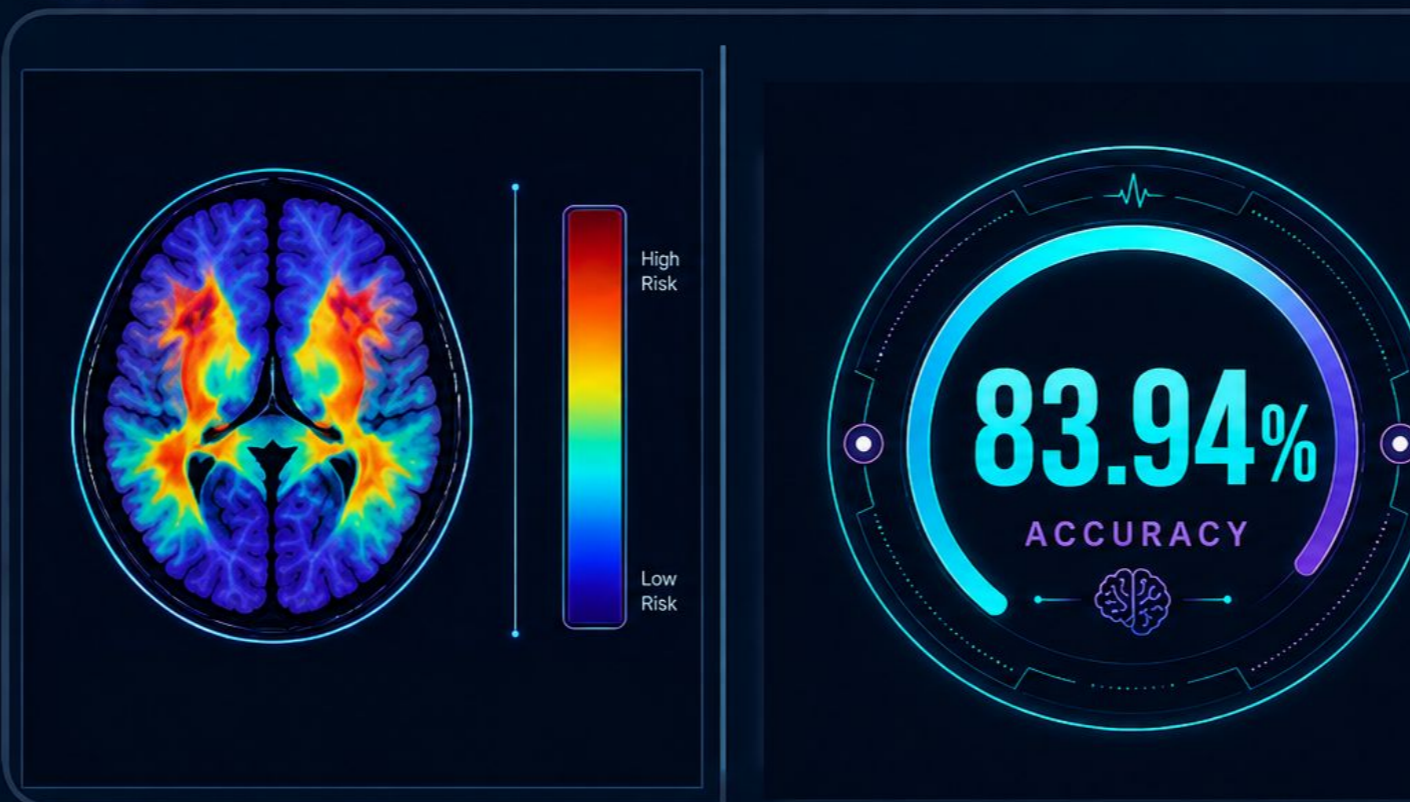
5 Data Behind the Project

Built with trusted international brain imaging datasets.

ADNI and OASIS support model development and testing.



Results



- Early Warning Power**
Silent signals before symptoms
- Routine MRI, Big Insight**
No luxury scan needed
- From Scan to Action**
AI-generated report doctors can use

“ Alzheimer's won't wait. *Neither will we.* ”



Genç Beyinler Yeni Fikirler-ANKARA
Proje Pazarı ve Bitirme Projeleri Ortak Sergisi