AlzhAl

Deep Learning Solutions for Early Diagnosis of Alzheimer's Disease



Introduction

Global Shortcomings in Tackling Dementia







+10M Global New Cases / Year

Rapid Cognitive Decline Ineffective Traditional Methods

Problem

41 out of 55 million people living with dementia remain undiagnosed (75%).

- Low awareness & Stigma.
- Primary-care screening is limited in early detection.
- Many cases are never diagnosed or only identified late — therapeutic window and prevention opportunities lost.

Source: ADI, Cognitive Tests to Detect Dementia

Delayed Diagnosis



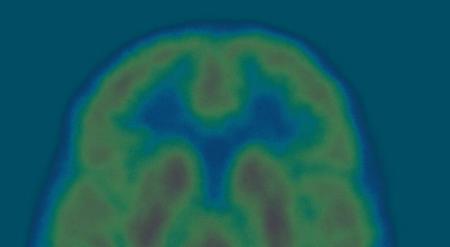
Delayed Care



Higher Costs

Solution

A deep learning—based software that empowers clinicians to screen, diagnose and predict Alzheimer's disease — earlier and more efficiently.



Comprensive Diagnostic Tool

Early Detection = Earlier Action

Scalable Solution

Why Now

- Undiagnosed Epidemic
- New Treatments Need Early Detection
- Tech Breakthroughs → Deep learning + explainable Al
- Global Momentum → Aging Population

A once-in-a-generation opportunity for scalable, Al-driven diagnosis

Market size

- Lower-Bound TAM: Global Individuals with Dementia ~ 57 million
 10 million new cases per year
- SAM ~ 7,85 million individuals living with dementia in Europe
 1.3 million new cases per year
- SOM ~ 200k individuals living with AD and MCI in Lombardy
 25k new cases per year

Competition

AlzhAl wants to bridge low-cost clinical data with imaging Al—enabling continuous patient tracking from early detection to late-stage care.



Early Diagnosis & Screening



Imaging Analysis neurophet

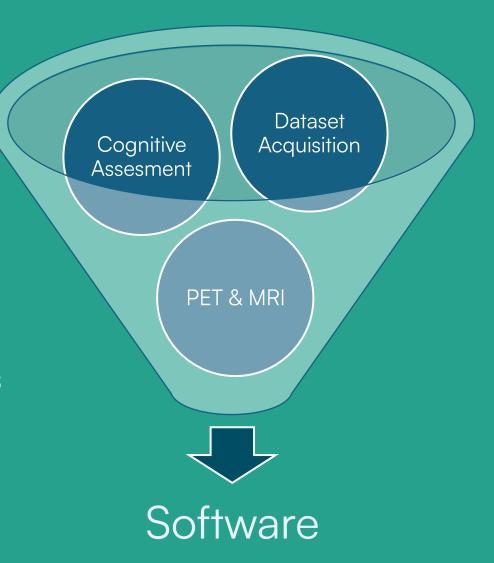


Product

Easy & Fast Software
 Analysis, Monitoring, Diagnostic support

• Screening & Early Detection
At-risk patients in the presymptomatic stages

Longitudinal Patient Tracking



Use Cases

It's Just Aging... Right?





Long-Term
Care Optimization



Target Clients

Private Clinics & Imaging Centers

 Public Hospitals (Neurology, Geriatrics)

RSA/ Nursing Homes



Business Model

SaaS Deep Learning Diagnostic Platform → Pay-per-Use

Screening

10€ / usage

Screening tool.
Individual risk
factors analysis
and global
cognition synthesis

MRI

30€ / usage

Decisional transparent tool to support clincians in early diagnosis

PET

50€ / usage

Transparent tool
to support
clincians in early
prediction and
diagnosis with
higher accuracy

Team

Daniele **De Carli**BSc Student in Engineering Physics

Alberto **Sudati**BSc Student in Engineering Physics





Working together in Laika Aerospace; developing and building low-budget solid propellant rocket. Both Attended 3° edition of Startup Bootcamp.