Cognitia Project Charter

Project Summary

The project aims to develop an AI-powered decision support system designed for clinicians to assist in interpreting psychological test results. By combining psychological assessments with machine learning models, the system provides fast, and interpretable insights that help doctors make more informed decisions in mental health evaluations.

Aim of the Project

To build a clinically reliable web-based platform that analyzes psychological test scores using machine learning models and presents AI-generated evaluations presented for healthcare professionals. This only serves as a foresight.

İntended Users

- Psychiatrists
- Clinical psychologists
- General practitioners
- Mental health professionals working in clinical settings

Project Goals

- Develop a user interface for entering and managing psychological test data
- Train machine learning models to classify mental health risks based on test responses
- Integrate AI to generate clinically relevant, explainable reports
- Ensure data privacy and ethical compliance in all aspects of the system
- Deliver a working prototype that can be demonstrated to doctors.

Deliverables

- A psychological test entry form (interactive UI)
- Two-stage machine learning system for test to data questions extraction and classification
- AI-generated result interpretation screen
- Basic patient report generation (e.g. downloadable PDF or screen output)
- Branding materials (project name, visuals, key messages)
- A hosted demo version (Streamlit, Hugging Face Spaces, or similar)

Values

Scientific Integrity	Grounded in validated psychological assessments and clinically interpretable results
Ethical Use of AI	Ensures patient privacy, anonymized data handling, and transparency in AI outputs
Clinician-Centered Design	Prioritizes the needs and language of doctors, not patients
Explainability	Provides understandable reasoning behind AI-driven conclusions
Early Support	Helps professionals identify potential risks at earlier stages for timely interventions