



محلك العصي

neuroti



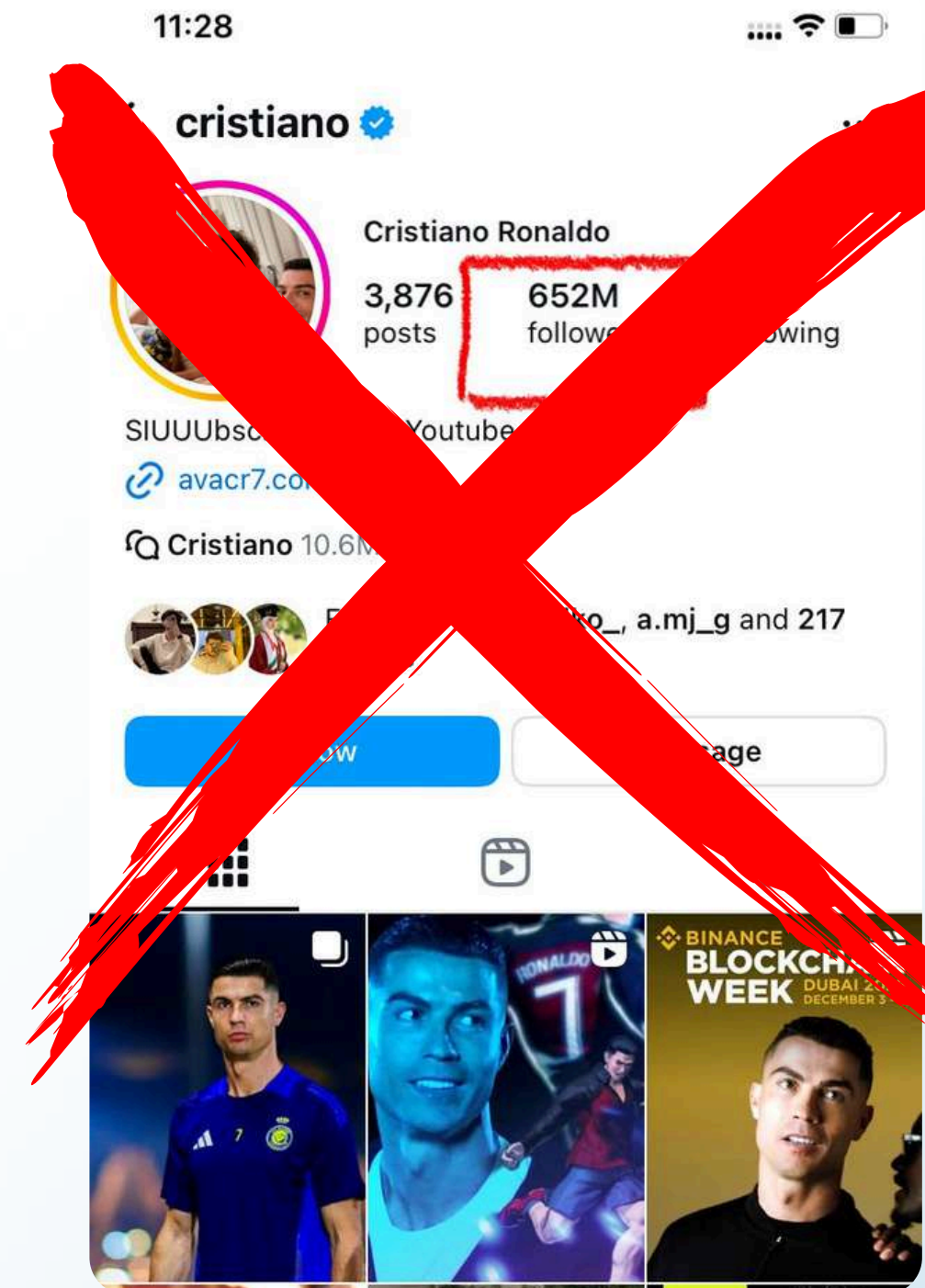
3 GOOD HEALTH
AND WELL-BEING

4 QUALITY
EDUCATION

TEAM 3

NYUAD HACKATHON for Social Good in the Arab World

970 million ?



970 million

people suffering from mental health disorders







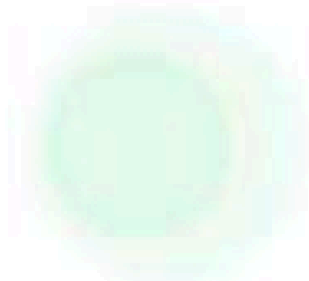
EEG

ELECTROENCEPHALOGRAM

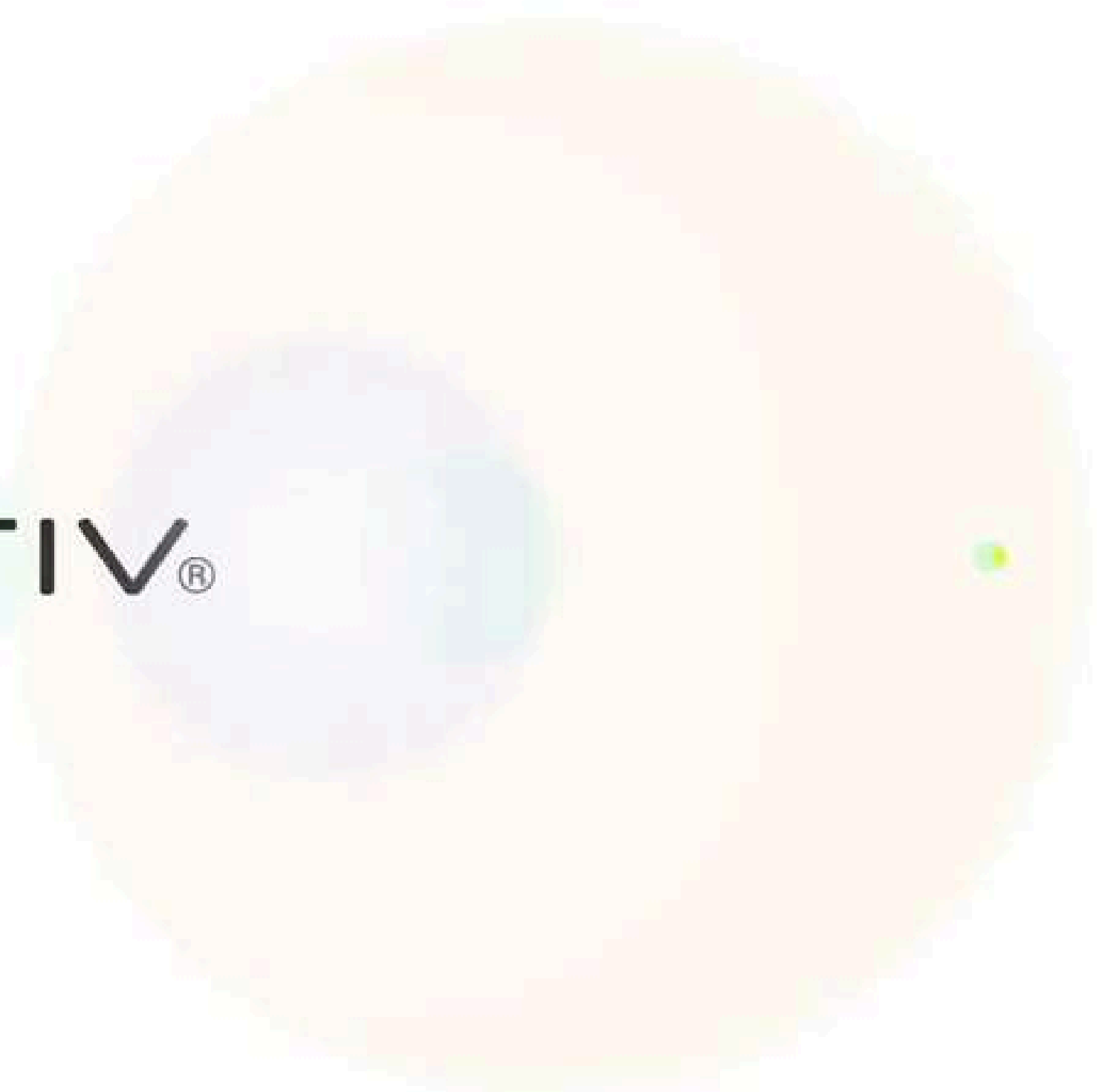
A non-invasive method used to record electrical activity of the brain by placing small electrodes on the scalp used clinical tests



Name: Valentine
Age: 22
Nationality: American
- Scared to go to the Clinic

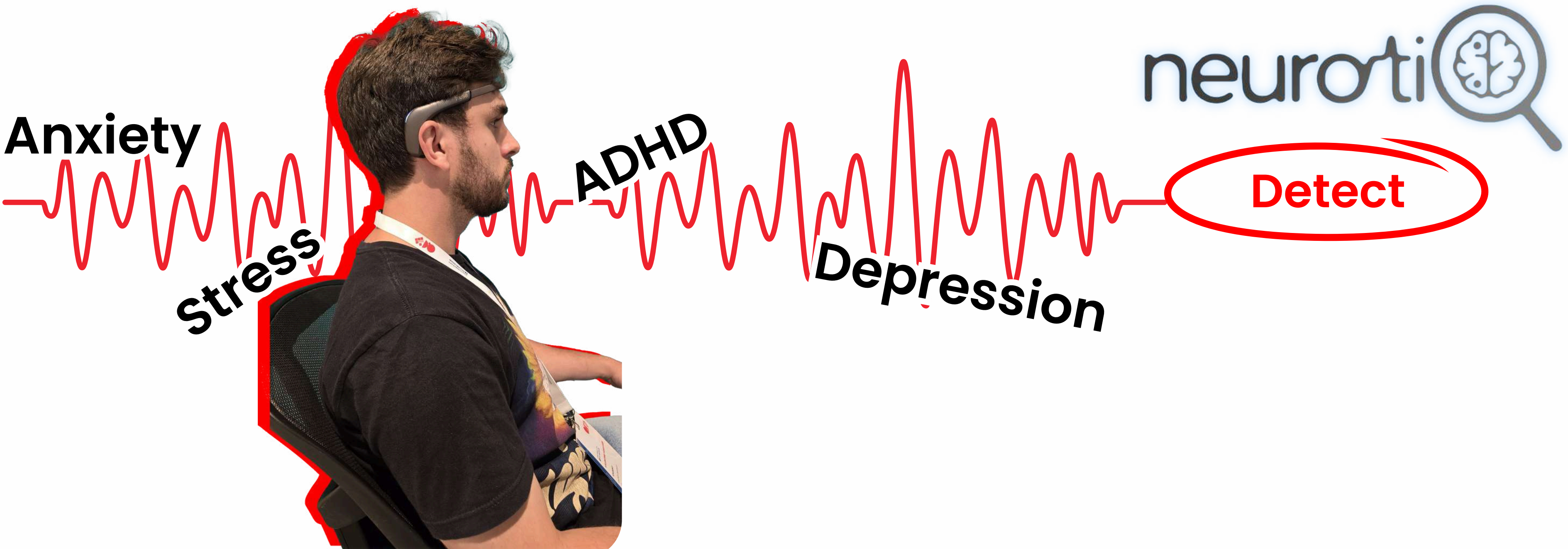


EMOTIV®





What We Do?







How NeurotiQ Works



Problem

EEG Signal Analysis Suffer from mental health disorders

SDGs Tackled

3 GOOD HEALTH AND WELL-BEING

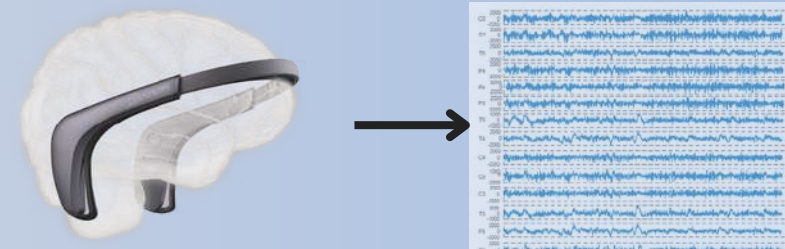
4 QUALITY EDUCATION

Impact

1. Making **mental health screening accessible** for millions
2. **Decrease Stress Rate** Locally & Globally
3. Increase General **Self-Awareness**

Our Solution

EEG Data Extraction & Preprocess

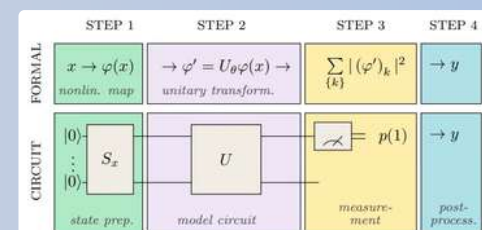
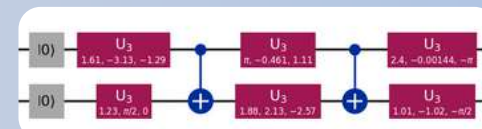


EEG Analysis & Quantum Analysis

Quantum Processors

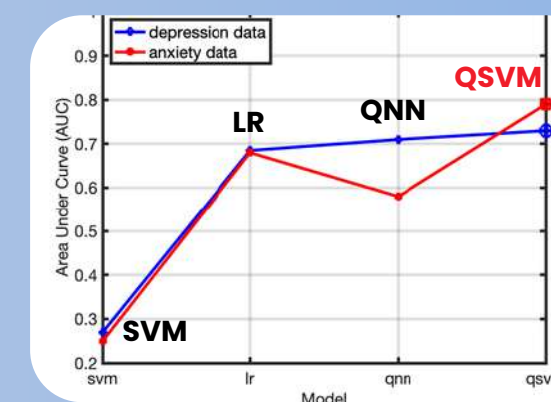
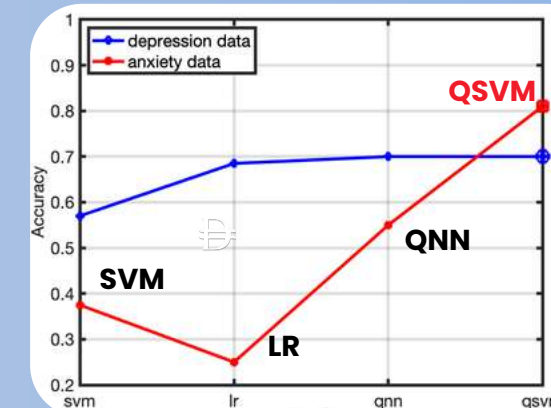


Quantum Classification Algorithms

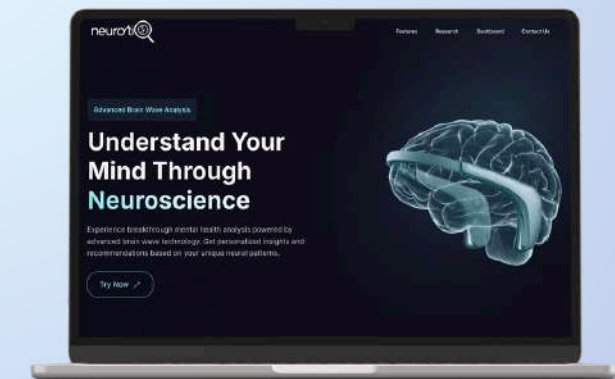


Recommendation System

Quantum Advantage

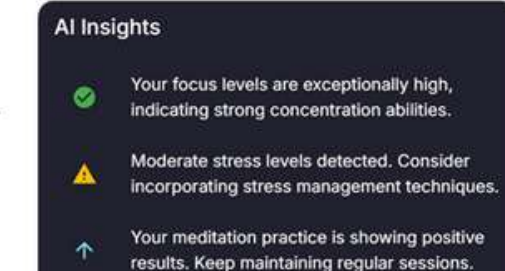
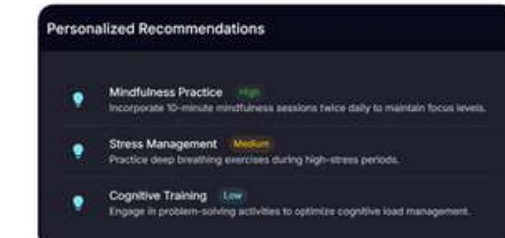


UI Dashboard Integrated With AI



1. **Analyse Data**
2. **Tips to feel Better**
3. **Connect to your Doctor**

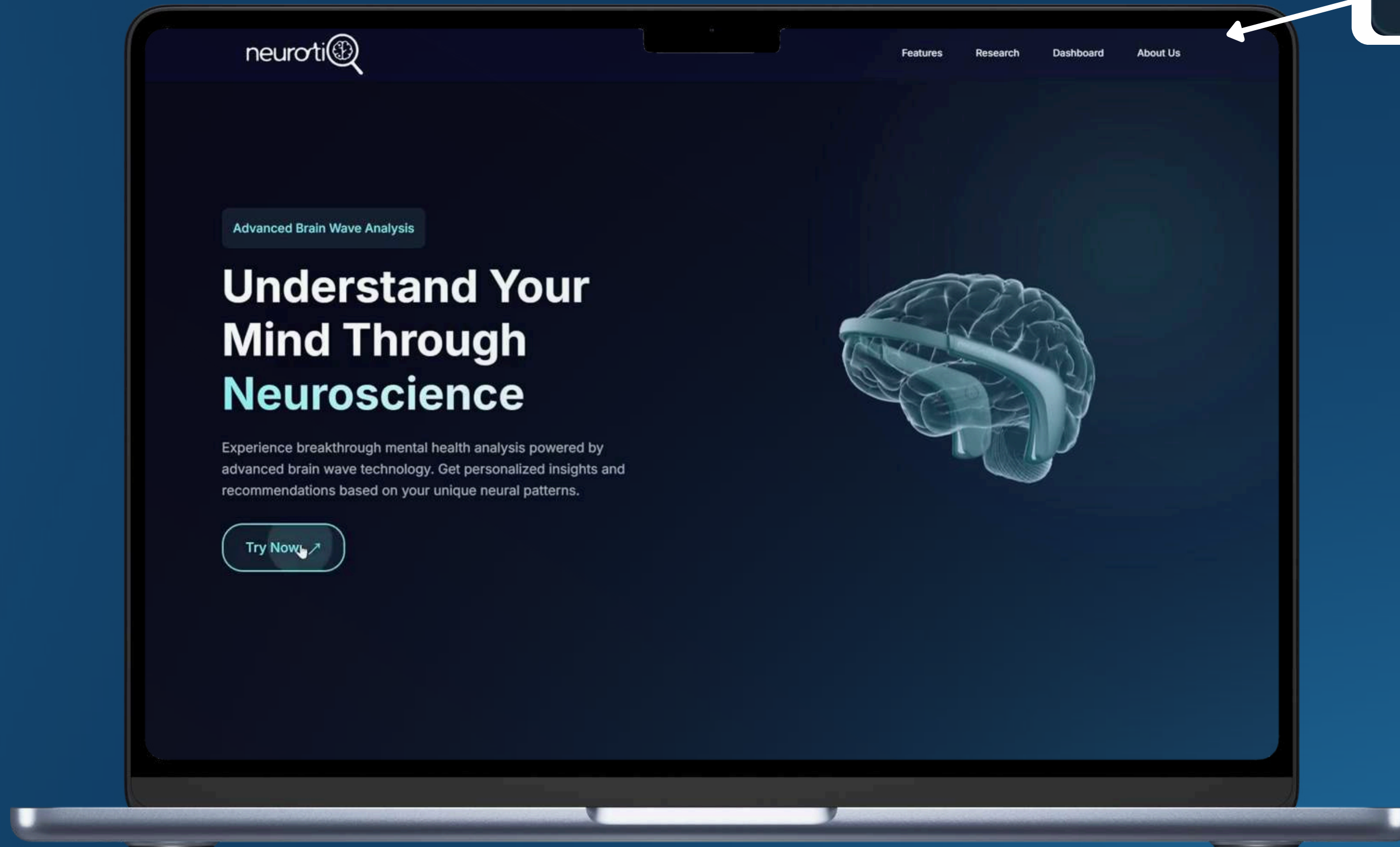
NeurotiQ Results





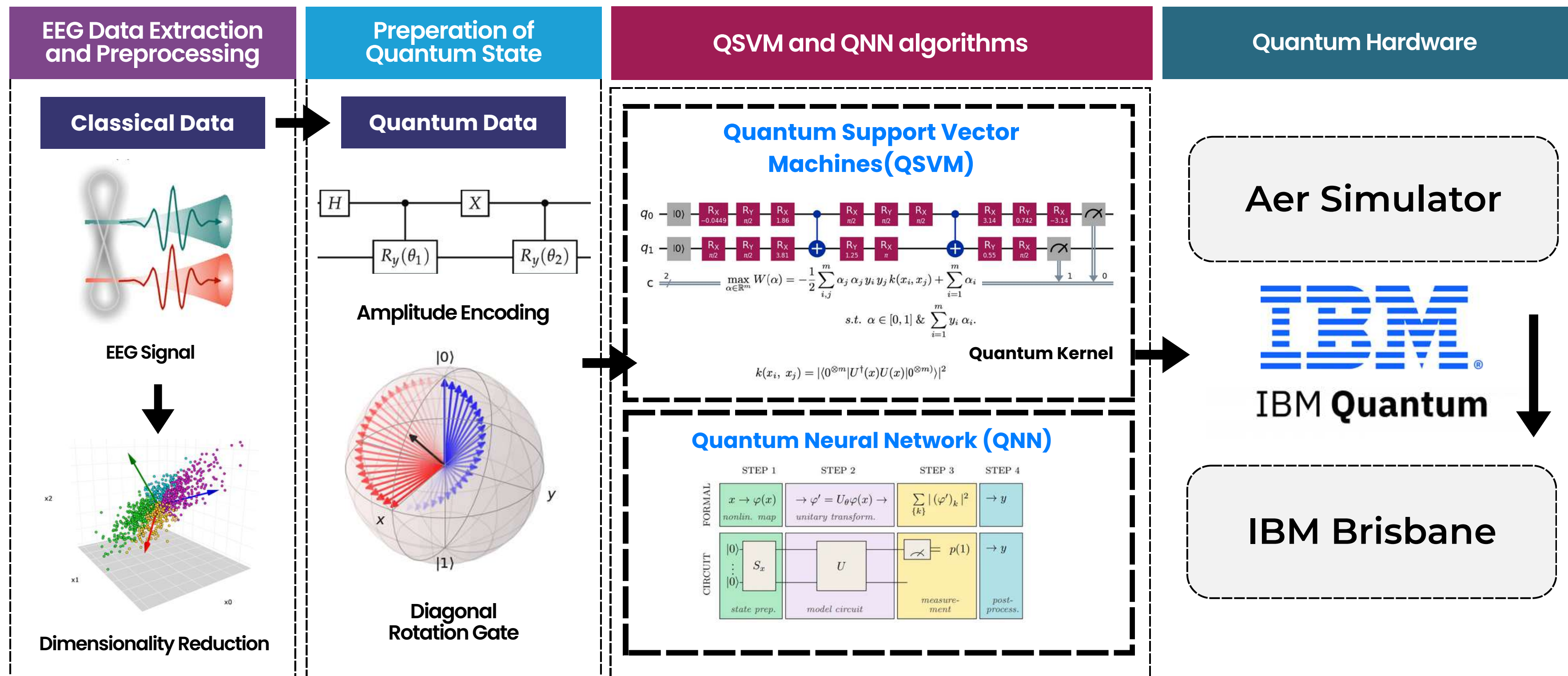
Our Solution

 [Invite a Doctor](#)





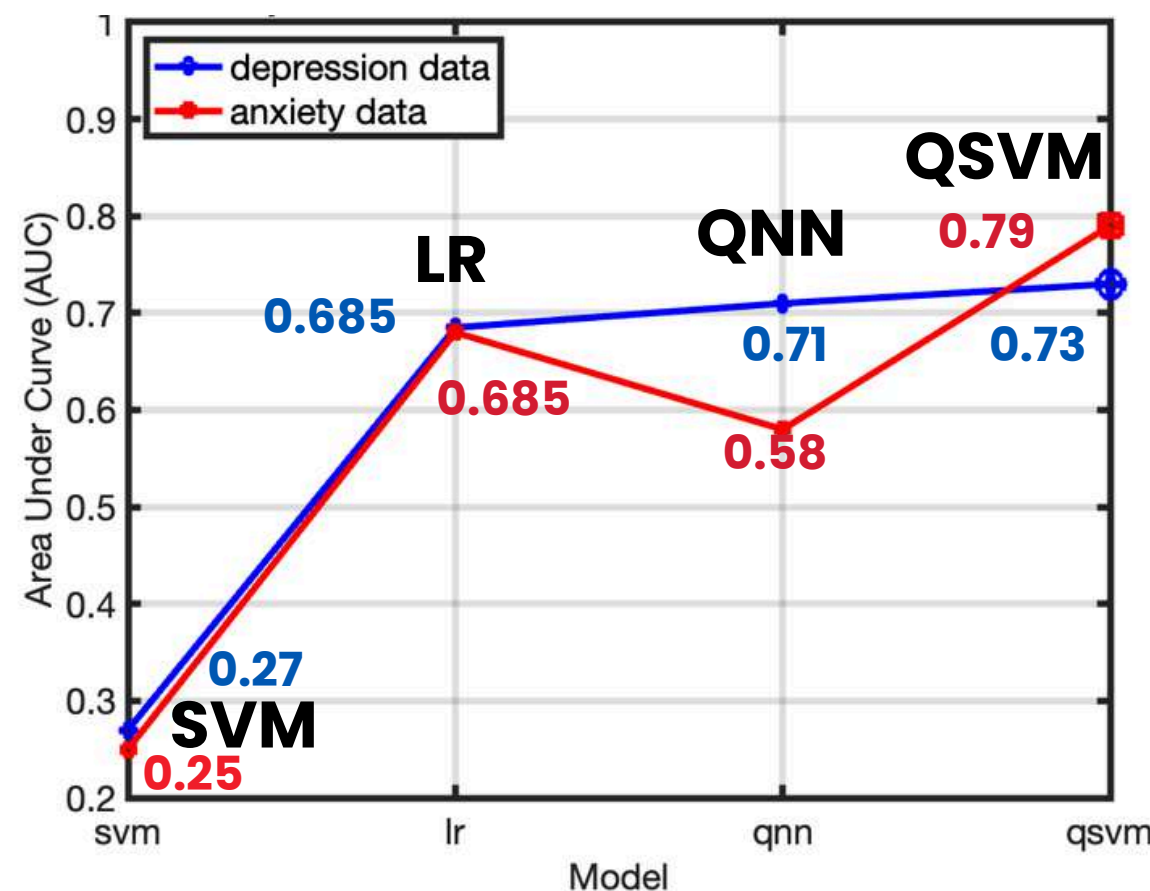
QML Experimental Methodology



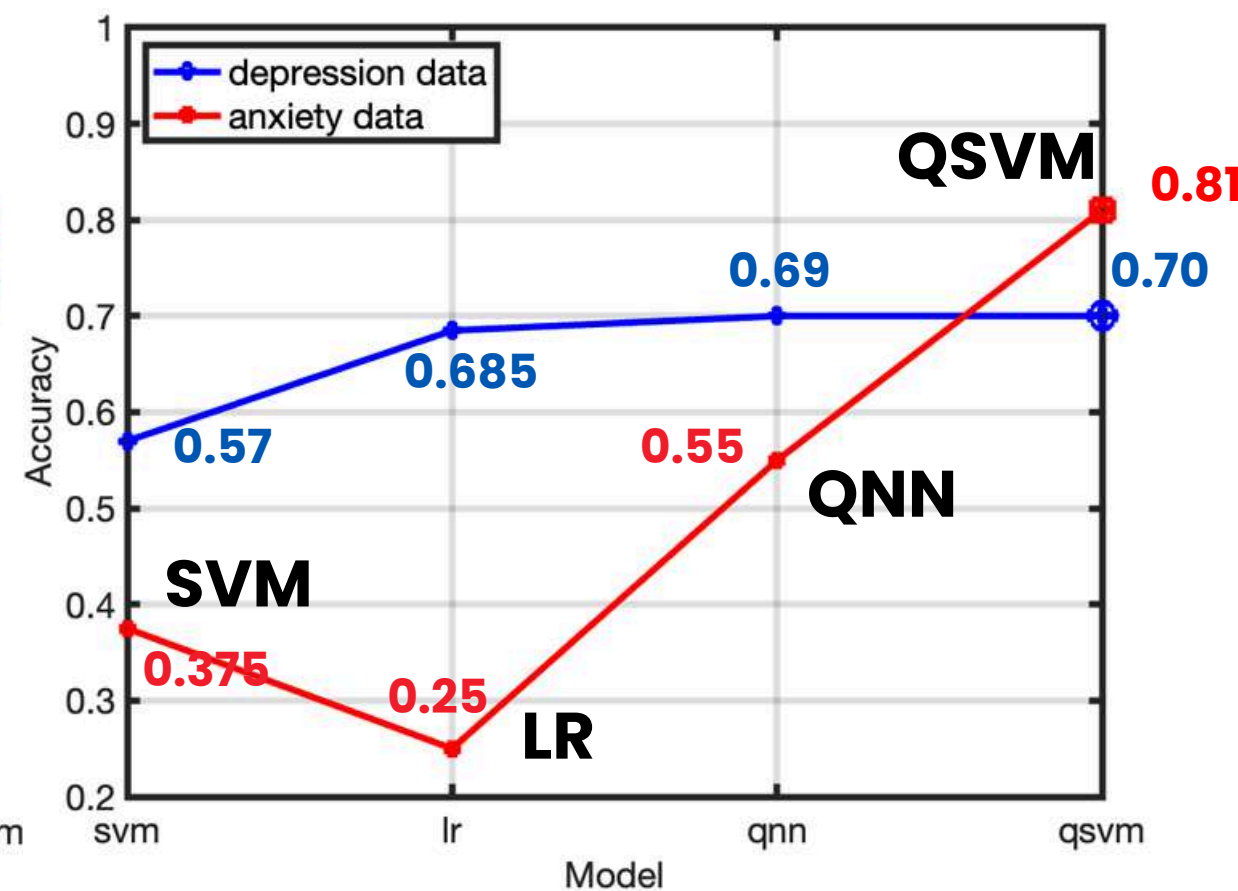


QML Advantage & Performance

AUC and Accuracy Performance Metrics For Classical and Quantum Algorithms

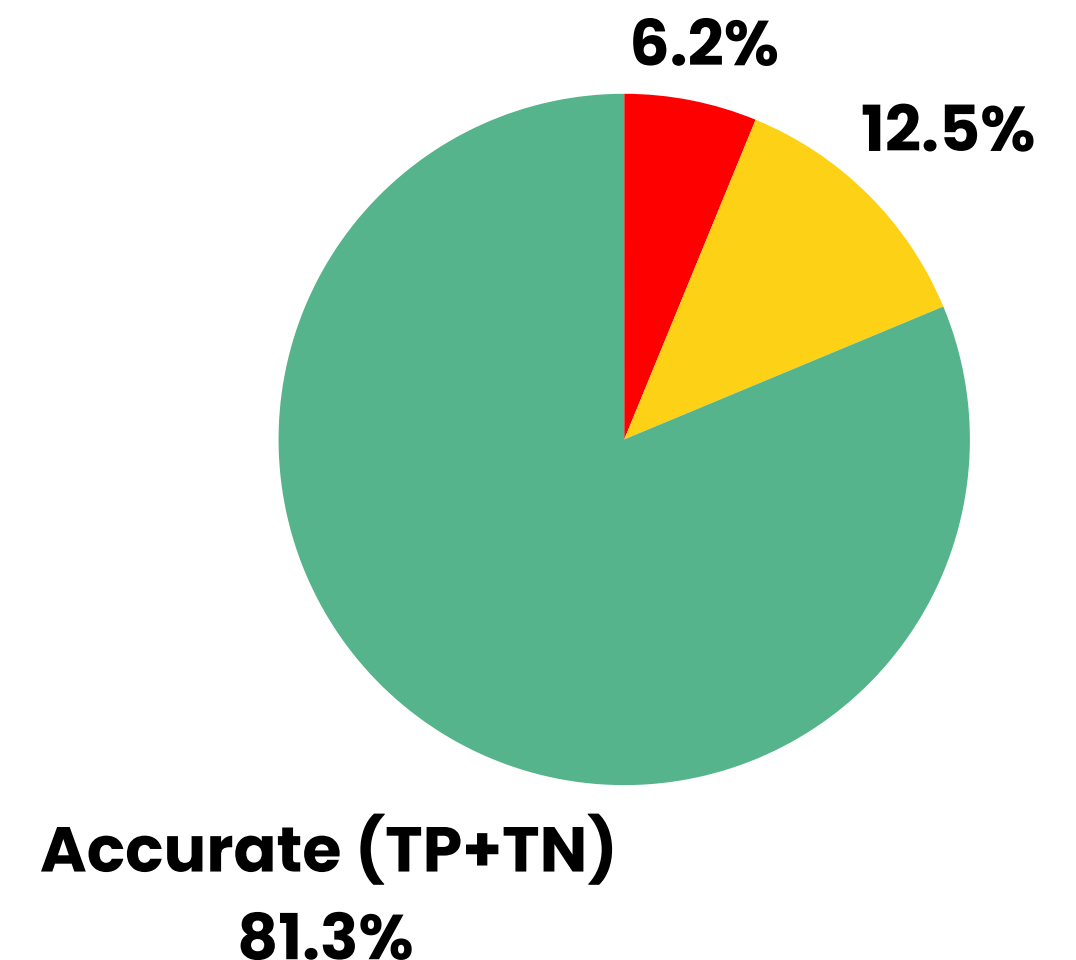


QSVM Outperforming



Faster

False Positive < 15%

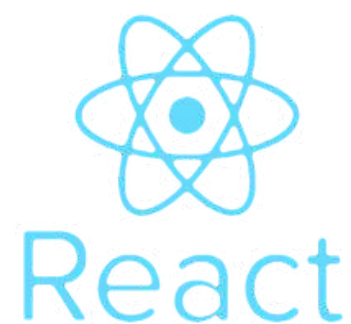


More accurate results



Hack Ingredients

Front-End



Back-End



Quantum Solutions



IBM Quantum

Quantum Machine
Learning (QML)

Quantum Vector Support
Machine (QSVM)



Business Model

B2C

Base

- Headset Rental
- Basic Brain Scans
- Analytical Reports
- Affordable entry point

for individuals

B2C

Premium

- Clinician Reviews
- Expanded Condition Modules
- Personalized recommendations

for individuals

B2B

Hospitals & Specialty Clinics

- Partnerships
- Dedicated NeurotiQ Portal

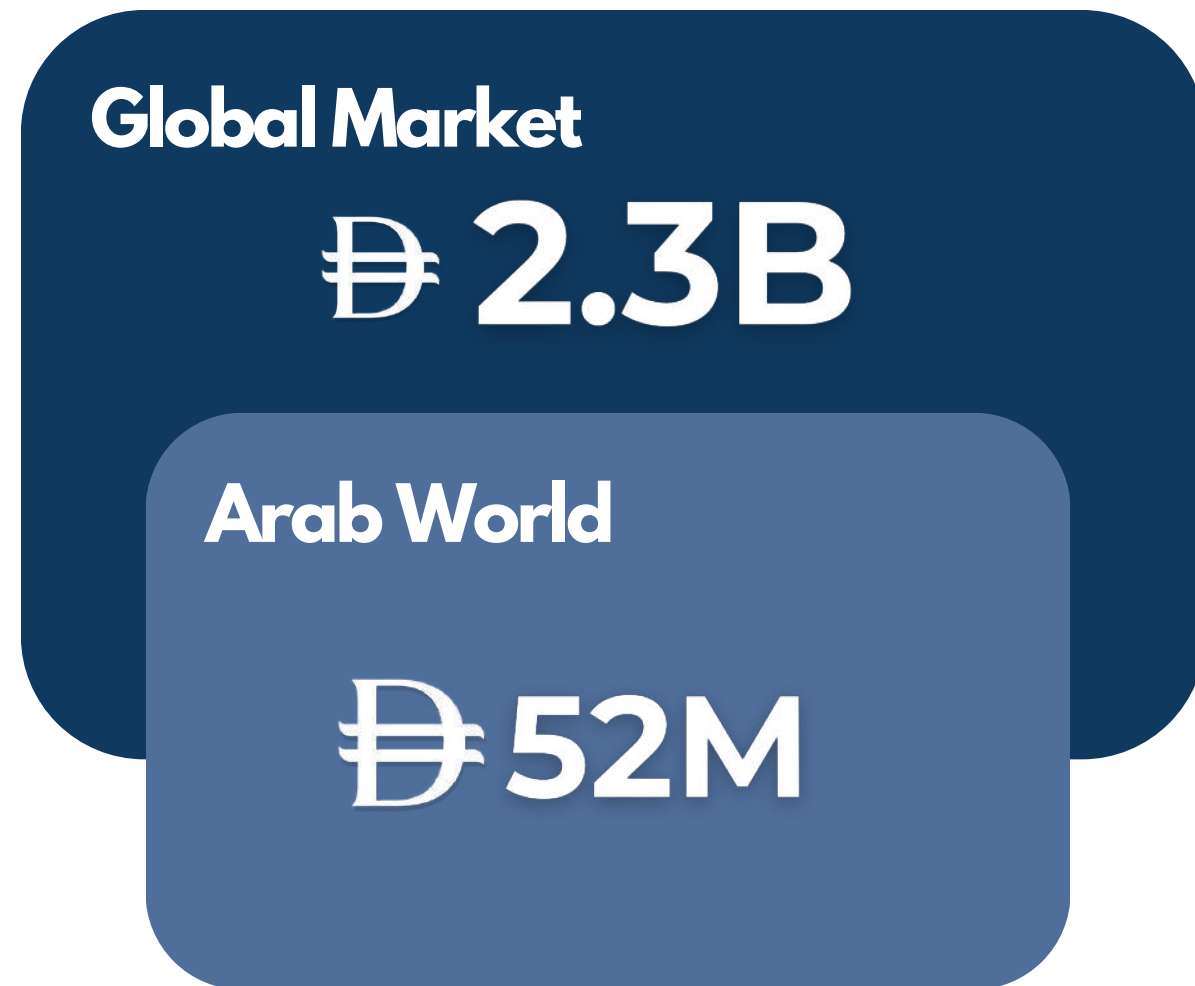


مبادلة للرعاية الصحية
Mubadala Health



Market & Opportunity

Market Potential



We plan to achieve **\$1.65M in ARR** within the next 2 years
Around **30k Users**

Comparative Analysis

	neuroti	Myndlift	NEWMENTALITY BIOFEEDBACK • NEUROFEEDBACK • COACHING	HEALIUM
Rental Model	✓	✓	✗	✗
Quantum ML Engine	✓	✗	✗	✗
Real-Time Insights	✓	✗	✗	✓
Low Access Barrier	✓	✗	✓	✓
Hardware Provider	✓	✗	✗	✗



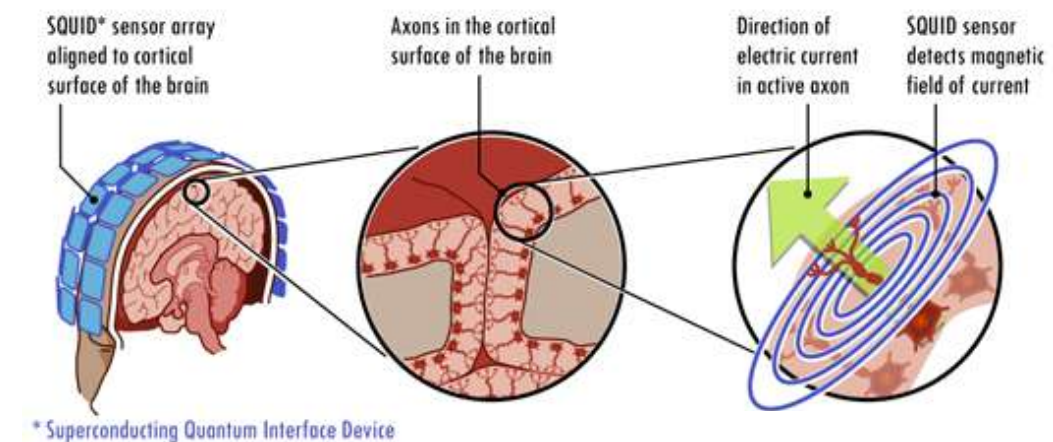
Our Future Plan

6 Months (Short-Term Goals)

- **Prototype Quantum Algorithms for EEG**
- **Implement Basic Quantum Data Security**
- **Clinician Co-Design Phase**

3 Years (Long-Term Goals)

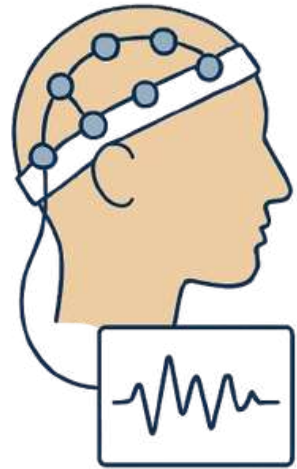
- **Fully Quantum-Native Platform with MEG Integration (quantum data)**



- **Clinical Trials and Global Deployment**
- **Advanced Quantum Cryptography Infrastructure**



Our Impact



Highly accurate mental health insights from EEG Analysis



Test yourself comfortably at home and share results with your doctor



Portable, Real-time, Easy to Use

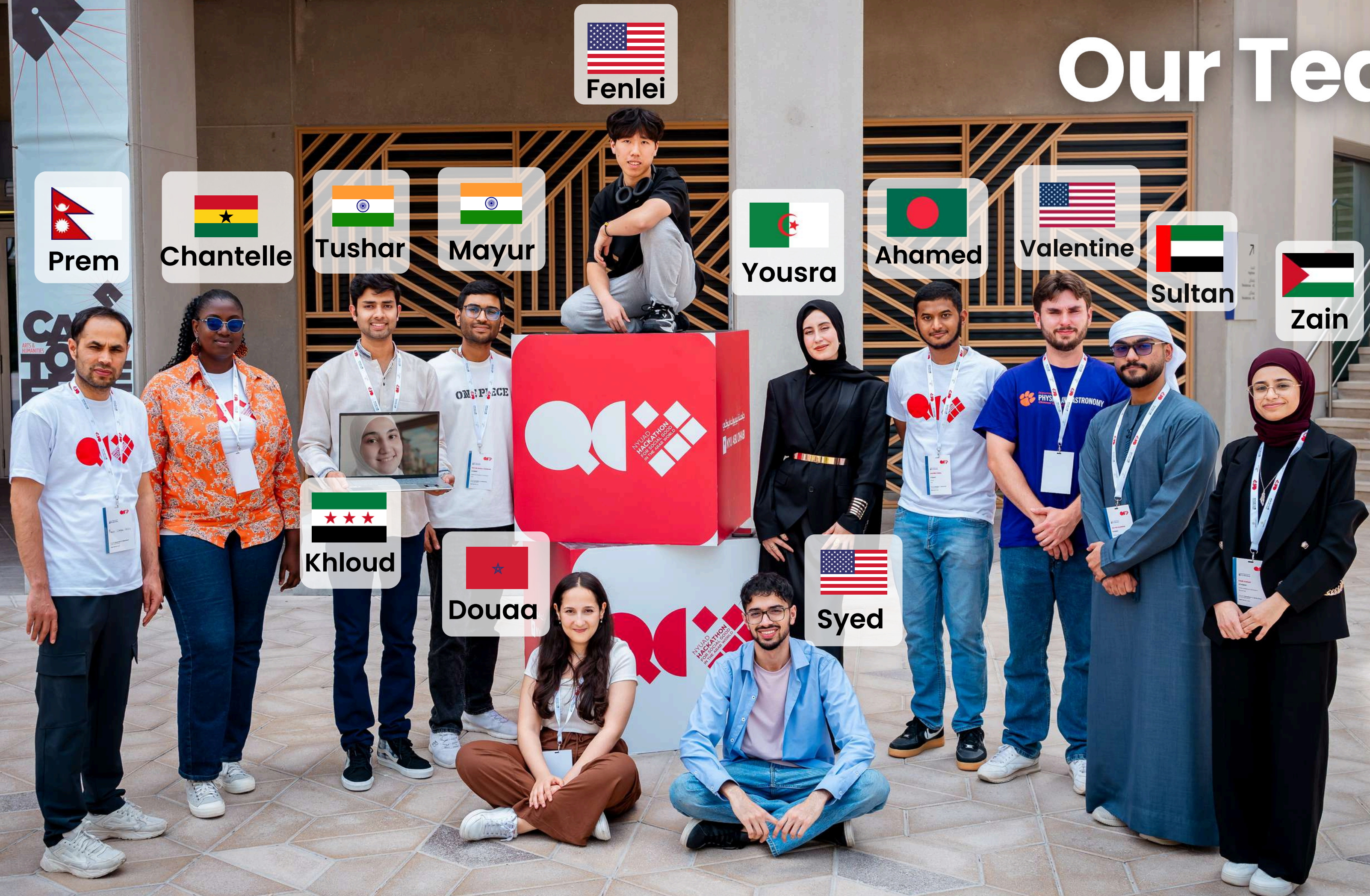


Making mental health screening accessible for millions



"We're NeurotiQ, we help you take charge of your mental health, with reliable support and effortless convenience."

Our Team



THANK YOU



Scan To View NeurotiQ!

Sponsors:



with support from
Google.org



ADIA : Lab



N I E W





محلك العصبي neurotiQ



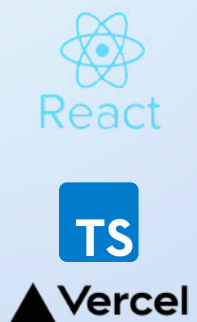
Problem

EEG Signal Analysis suffers from slow diagnosis for mental health disorders

SDGs Tackled



Frontend



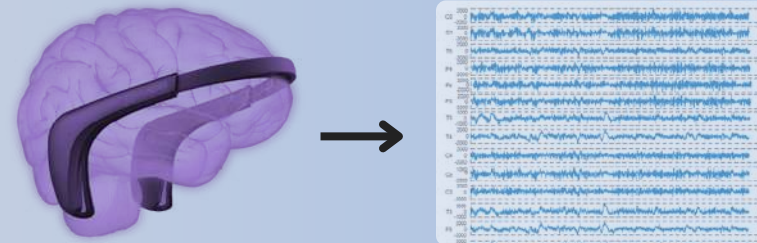
Backend



Quantum



EEG Data Extraction & Preprocessing

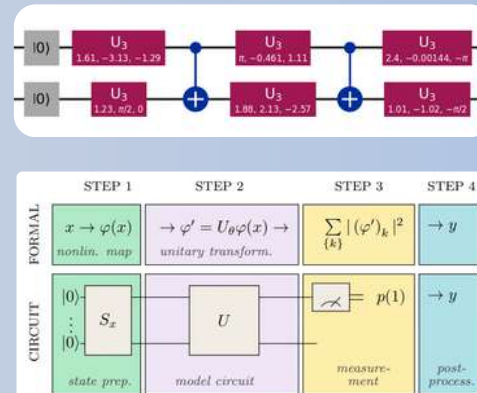


EEG Analysis & Quantum Analysis

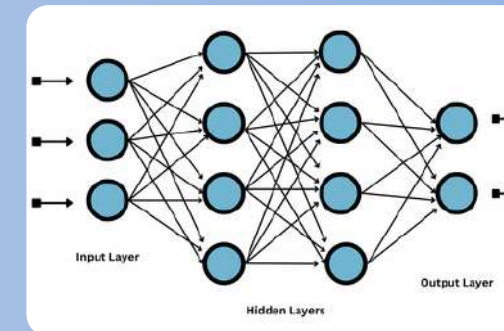
Quantum Processors



Quantum Classification Algorithms

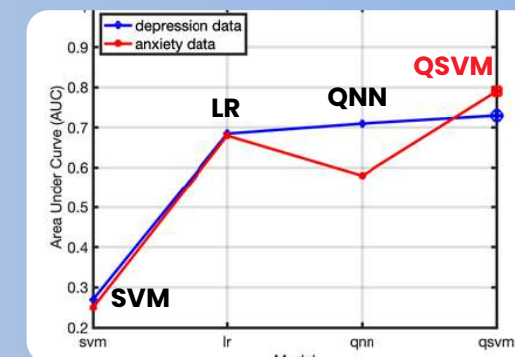
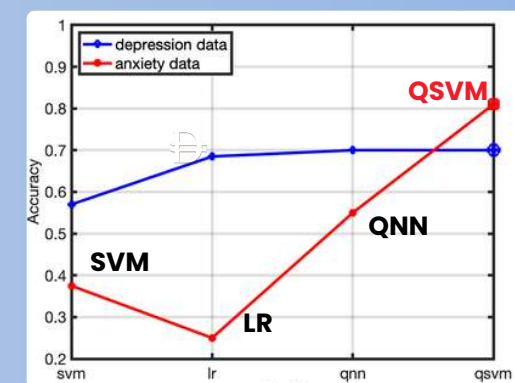


Our Solution

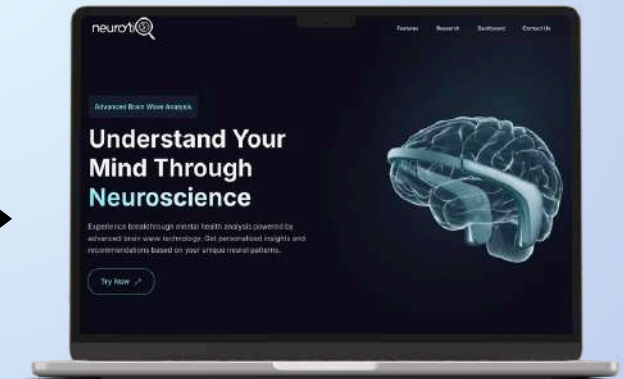


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Quantum Advantage



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Market Potential

Global Market

₪ 2.3B

Arab World

₪ 52M



Appendix

QML Experimental Methodology

