Prediction Report Using EEG Data

PATIENT INFORMATION

Basic Details

Patient Name:	vzsc
Age:	6 years
Gender:	Female
Date of Birth:	2018-12-31
Report Generated:	November 07, 2025 at 08:43 PM
Report ID:	RPT-DC6010C9

EEG ANALYSIS & PREDICTION RESULTS

EEG Data Analysis

EEG Image File:	eeg_f3158c65-acd9-47bc-9c43-2f2fc2f21c7e_s01_ex01_s01__EXC
Analysis Date:	November 07, 2025 at 08:43 PM
Model Used:	Deep Learning CNN Architecture
Input Resolution:	380x380 pixels
Analysis Type:	Treatment Response Prediction

PREDICTION OUTCOME

PREDICTION: Non-responder

EMOTION RECOGNITION RESULTS

Predicted Emotion	Sad
Confidence	34.41%
Model Status	loaded:emotion_resnet50.h5
Class	**Probability**
Happy	31.7%
Neutral	33.9%
Sad	34.4%

COGNITIVE STATE ANALYSIS

Predicted State	Relax
Confidence	38.34%
Model Status	loaded:cognitive_model.keras
Class Probabilities	focus:30.1%, relax:38.3%, stress:31.5%
Recommendation	Light stretching and visualization to maintain calm.

CLINICAL INTERPRETATION

LIMITED TREATMENT RESPONSE INDICATED

The EEG analysis reveals neural patterns that suggest potential challenges with standard treatment approaches. The model indicates a 85.0% probability that this patient may not respond as expected to conventional therapeutic protocols.

Clinical Recommendations:
• Consider alternative treatment strategies
• Implement additional diagnostic assessments
• Explore personalized medicine approaches
• Monitor closely for any positive response indicators
• Consider consultation with specialists

Technical Details:
The analysis identified neural patterns that historically correlate with limited treatment response. While the confidence level is 85.0%, this prediction should be considered alongside other clinical factors and patient-specific considerations.

TECHNICAL SPECIFICATIONS

AI Model Details:
• Model Type: Convolutional Neural Network (CNN)
• Training Data: Extensive EEG dataset with treatment response outcomes
• Input Resolution: 380x380 pixels
• Model Status: Compatible
• Analysis Date: November 07, 2025 at 08:43 PM

Confidence Metrics:
• Raw Model Output: 0.4910
• Enhanced Probability: 0.2455
• Final Confidence: 85.00%