NeuroBloom Cognitive Report

Session ID: 1cdc56df-43ea-4ba2-83e8-c336598b9496

AI Summary

```json
{
"diagnosis": {
"dyslexia": "Not Diagnosed",
"dyscalculia": "Not Diagnosed",
"adhd": "Possible",
"asd": "Not Diagnosed",
"dysgraphia": "Possible"
},
"reasons": {
"dyslexia": "No reading test results indicate a high risk of dyslexia.",
"dyscalculia": "Math test results show normal performance with strengths in money calculation, comparing numbers, subtraction, comparing quantities, counting objects, and addition.",
"adhd": "Hearing test results indicate poor sustained attention (missed beeps) and very slow auditory responses (auditory processing weakness), which are common symptoms of ADHD.",
"asd": "No test results indicate a high risk of ASD.",
"dysgraphia": "Handwriting test results indicate poor motor planning while writing and possible dysgraphia (writing difficulty)."
},
"strengths": [
"Money calculation",
"Comparing numbers",
"Subtraction",
"Comparing quantities",
"Counting objects",
"Addition",
"Smooth word flow",
"Good basic reading speed",
"Good reading endurance",
"Recognizes anger",
"Recognizes happiness",
"Recognizes distress",
"Recognizes sadness",
"Good sound discrimination",
"Good spoken word understanding",
"Strong visual working memory (can remember images well)",
"Good visual-spatial ability",
"Strong pattern and logical reasoning",
"Fast thinking and response speed"
],
"weaknesses": [
"Poor motor planning while writing",
"Possible dysgraphia (writing difficulty)",
"Poor sustained attention (missed beeps)",
"Very slow auditory responses (auditory processing weakness)"
],
"therapies": [
"Occupational therapy to improve motor planning and writing skills",
```

"Speech therapy to improve auditory processing and attention",
"Cognitive training to improve working memory and pattern recognition",
"Behavioral therapy to improve sustained attention and impulse control"
],
"school_support": [
"Provide extra time for assignments and tests",
"Offer one-on-one support for writing and reading tasks",
"Use assistive technology to aid with writing and reading",
"Provide regular breaks and opportunities for physical activity"
],
"risk_level": {
"dyslexia": "Low",
"dyscalculia": "Low",
"adhd": "Moderate",
"asd": "Low",
"dysgraphia": "Moderate"
}
}
```

## Raw Model Output

{ "session_id": "1cdc56df-43ea-4ba2-83e8-c336598b9496", "math": { "child_strengths":
[ "Money calculation", "Comparing numbers", "Subtraction", "Comparing quantities",
"Counting objects", "Addition" ], "child_struggles": [], "confidence": 98.15,
"math_profile": { "accuracy": 1.0, "avg_time": 1.5, "consistency": 0.76 },
"prediction": "Normal", "probabilities": { "High Risk": 0.0, "Low Risk": 1.85,
"Medium Risk": 0.0, "Normal": 98.15, "Slow Learner": 0.0 }, "question_analysis": [ {
"correct": true, "performance": "slow but correct", "skill": "Counting objects",
"time": 2.0 }, { "correct": true, "performance": "good", "skill": "Comparing
quantities", "time": 1.0 }, { "correct": true, "performance": "good", "skill":
"Comparing numbers", "time": 1.0 }, { "correct": true, "performance": "good",
"skill": "Addition", "time": 1.0 }, { "correct": true, "performance": "slow but
correct", "skill": "Money calculation", "time": 3.0 }, { "correct": true,
"performance": "good", "skill": "Subtraction", "time": 1.0 } ], "session_id":
"1cdc56df-43ea-4ba2-83e8-c336598b9496" }, "reading": { "LD_score": 0.0337,
"audio_1_features": { "avg_pause": 0.36000000000000004, "max_pause":
0.4400000000000004, "pause_count": 0, "total_words": 13, "wpm": 120.74303405572756
}, "audio_2_features": { "avg_pause": 0.31999999999999984, "max_pause":
0.31999999999999984, "pause_count": 0, "total_words": 9, "wpm": 128.57142857142856
}, "child_strengths": [ "Smooth word flow", "Good basic reading speed", "Good
reading endurance" ], "child_struggles": [], "combined_features": { "avg_pause":
0.33999999999999997, "max_pause": 0.4400000000000004, "pause_count": 0,
"total_words": 22, "wpm": 124.65723131357805 }, "reading_risk": "NORMAL",
"session_id": "1cdc56df-43ea-4ba2-83e8-c336598b9496", "threshold": 0.0778 },
"emotion": { "child_strengths": [ "Recognizes anger", "Recognizes happiness",
"Recognizes distress", "Recognizes sadness" ], "child_struggles": [],
"emotion_prediction": { "confidence": 100.0, "result": "Normal" },
"question_analysis": [ { "correct": true, "emotion": "Happiness", "reaction_time":
0.0, "speed": "slow" }, { "correct": true, "emotion": "Sadness", "reaction_time":
0.0, "speed": "slow" }, { "correct": true, "emotion": "Anger", "reaction_time": 0.0,
"speed": "normal" }, { "correct": true, "emotion": "Distress", "reaction_time": 0.0,
"speed": "normal" } ], "session_id": "1cdc56df-43ea-4ba2-83e8-c336598b9496" },
"hearing": { "features": { "impulsivity": 0, "mean_reaction_time": 800.0,
"missed_beeps": 5, "reaction_variability": 0.0, "slow_responses": 5 }, "prediction":
"adhd", "strengths": [ "Good sound discrimination", "Good spoken word understanding"
], "weaknesses": [ "Poor sustained attention (missed beeps)", "Very slow auditory
responses (auditory processing weakness)" ] }, "cognition": {
"cognitive_prediction": "adhd", "session_id":
"1cdc56df-43ea-4ba2-83e8-c336598b9496", "strengths": [ "Strong visual working memory
(can remember images well)", "Good visual-spatial ability", "Strong pattern and
logical reasoning", "Fast thinking and response speed" ], "test6_scores": {
"memory": 1, "mirror": 1, "odd_one_out": 1, "pattern": 1 }, "test6_times": {
"memory": 1.0, "mirror": 2.0, "odd_one_out": 1.0, "pattern": 2.0 }, "weaknesses": []
}, "handwriting": { "child_strengths": [], "child_struggles": [ "Poor motor planning
while writing", "Possible dysgraphia (writing difficulty)" ], "handwriting_risk":
"INCONCLUSIVE", "risk_score": 0.5, "session_id":

"1cdc56df-43ea-4ba2-83e8-c336598b9496" } }