

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

KODIKON N

NETWORKING — HACKATHON — MENTORSHIP

5.0

POWERED BY  Pixcellence

NeuroAssist Platform
Assistive GenAI for Neurodivergent
Minds | Kodikon 5.0

TEAM DETAILS

Alcoholics

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Problem Statement

- Neurodivergent individuals often lack personalized support tools.
- Existing apps are generic, non-adaptive, and overwhelming.
- There is a need for assistive tools that guide, track, and adapt to user needs.

Our Solution: DevTrack

- An AI-powered support and progress tracking platform.
- Built to assist ADHD, Autism, Dyslexia & cognitive diversity users.
- Uses explainable AI to provide insights users can understand and apply.

Key Features

- Multi-Agent AI System for reasoning and recommendations.
- Personalized assessments and milestone tracking.
- Progress analytics with clear visual dashboards.
- Neurodivergent-friendly modern UI & accessibility focus.

Multi-Agent Architecture

- Coordinator: Manages workflows.
- Assessor: Collects and evaluates user inputs.
- Analyzer: Detects progress and behavioral patterns.
- Recommender: Suggests strategies and resources.
- Explainer: Converts insights into simple guidance.

Tech Stack

- Frontend: Next.js + TypeScript + Tailwind + Shadcn UI
- Backend: FastAPI (Python)
- AI Models: Mistral 7B + custom reasoning pipelines
- Database + Local inference support

Why This Matters

- Improves emotional regulation and learning independence.
- Supports parents, teachers & caregivers with insights.
- Promotes inclusivity using responsible and accessible AI.

Demo Flow

- User selects cognitive profile / learning domain.
- Platform performs guided assessment.
- AI agents analyze milestones and patterns.
- User receives personalized action roadmap + progress tracking.

Impact & Future Scope

- Can integrate with schools & therapy systems.
- Offline local AI for privacy.
- Gamified habit-building and reinforcement planned.

Thank You

Team Alcoholics

Empowering neurodivergent minds with
explainable, actionable AI.