2-Dooz Announces Groundbreaking Study Validating TALUS AI Mental Fitness Test: Gemini LLM Emulation Confirms 'Typical Person' as 'Thriving'

SANTA CLARA, CA – July 29, 2025 – 2-Dooz, a leader in mental health AI innovation, today announced the successful completion of a pioneering study that validated its proprietary TALUS™ AI Mental Fitness Test. This novel experiment utilized Google's Gemini Large Language Model (LLM) to accurately simulate a 'typical person' taking the TALUS AI test. The consistent 'Thriving' categorization of this simulated user by the TALUS AI model directly aligned with 2-Dooz's real-world user data, providing a robust comparative validation for the test's ability to accurately estimate typical mental fitness levels.
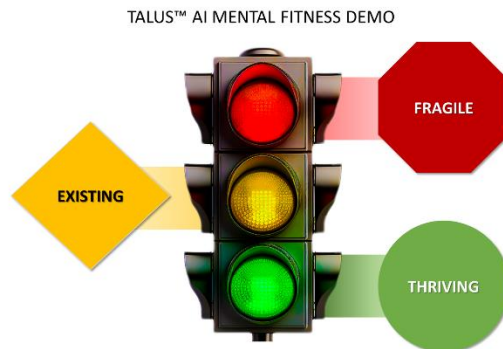
TALUS (**T**rained **A**rtificial **L**ogic **U**sed for **S**afety) is 2-Dooz's foundational Mental Health Safety AI model. Trained on clinician-curated datasets, TALUS AI is exceptionally compact requiring minimal memory, processing and power for both training and inferencing, relative to LLM footprints. TALUS AI is a core model that serves as the foundation for a family of multimodal AI models which target specific aspects of mental health. TALUS AI estimates the mental fitness for users of the TALUS AI Mental Fitness Test.

The participant in this study was Google's Gemini LLM. Gemini was instructed to precisely emulate the responses of a "typical person," a profile statistically derived from its extensive and diverse training dataset of several trillion tokens (comprising text, images, and code). This

innovative approach allowed for a controlled, replicable simulation of a generalized human response, efficiently validating the TALUS AI model without the extensive time and expense typically required for recruiting a statistically relevant number of human participants.

"This study represents a significant milestone in validating the robustness and accuracy of our TALUS AI Mental Fitness Test," said David Mosely, PsyD, Chief Clinical Officer at 2-Dooz. "The consistent 'Thriving' result from a statistically emulated 'typical person,' mirroring our observations from real-world users, powerfully underscores the reliability of TALUS AI in capturing a state of general well-being. It affirms that our model effectively identifies baseline mental fitness, which is crucial for distinguishing those who are thriving from those who may need support."

The successful emulation using Gemini demonstrates a novel application of LLMs in preliminary psychological research, opening new avenues for validating assessment tools and understanding generalized human responses. "While LLM emulation cannot completely replace human clinical trials, this experiment provides compelling proof of concept for using advanced AI in the early stages of mental health assessment validation," added Dr. Mosely. "It's an exciting step towards leveraging cutting-edge technology to enhance our understanding and measurement of mental fitness on a broader scale."

This pioneering study reinforces 2-Dooz's commitment to developing scientifically sound, accessible tools that empower individuals to monitor and improve their mental well-being.

About 2-Dooz

2-Dooz is a privately funded, pioneering, and socially conscious Silicon Valley based incubator, accelerator, independent biotechnology research lab and consultancy. The company's mission is to foster affirming, technology-based products and services which enhance purpose and quality of living. 2-Dooz leverages cutting-edge AI innovation to develop solutions that empower individuals to proactively manage their health and well-being. The company was founded by Tony Clark, President, CEO and Chairman, in 2003 and formally incorporated in May of 2006.

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