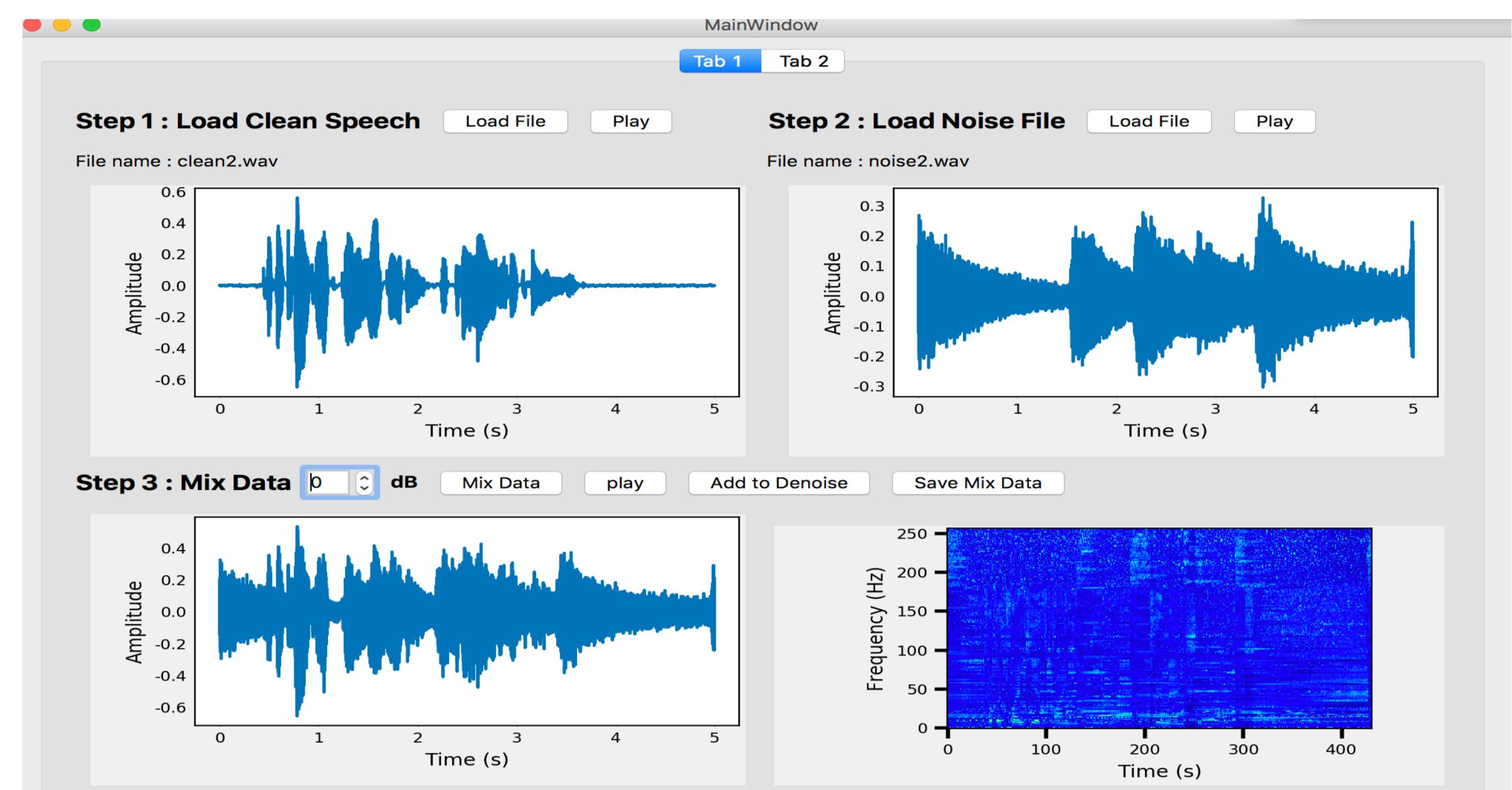


人工智慧除噪系統

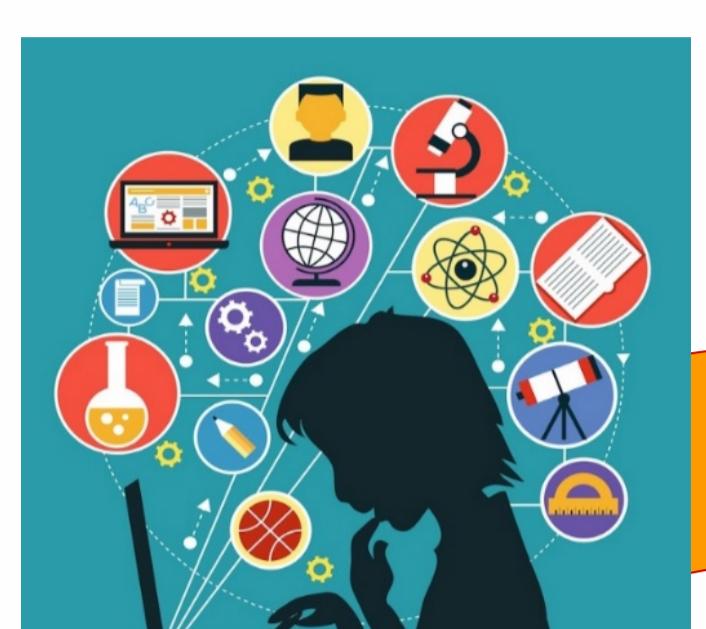
李尤進、洪國軒、曹昱、Jonathan Sherman

語音：人類最自然的溝通工具

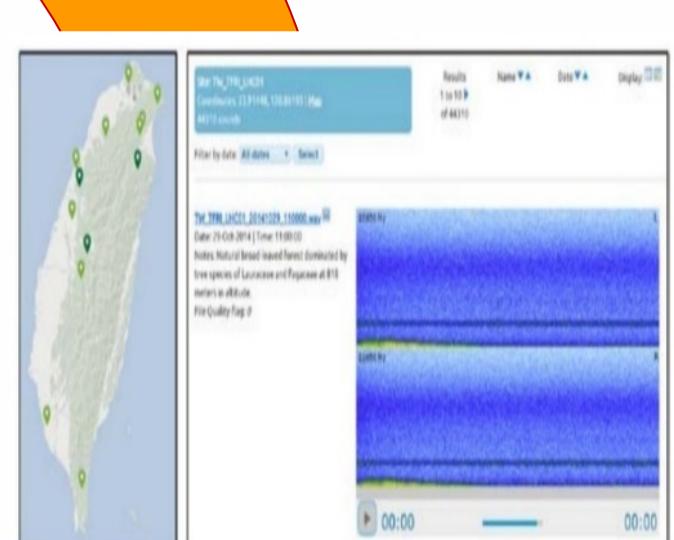
PC版操作介面



Education



Chatbot

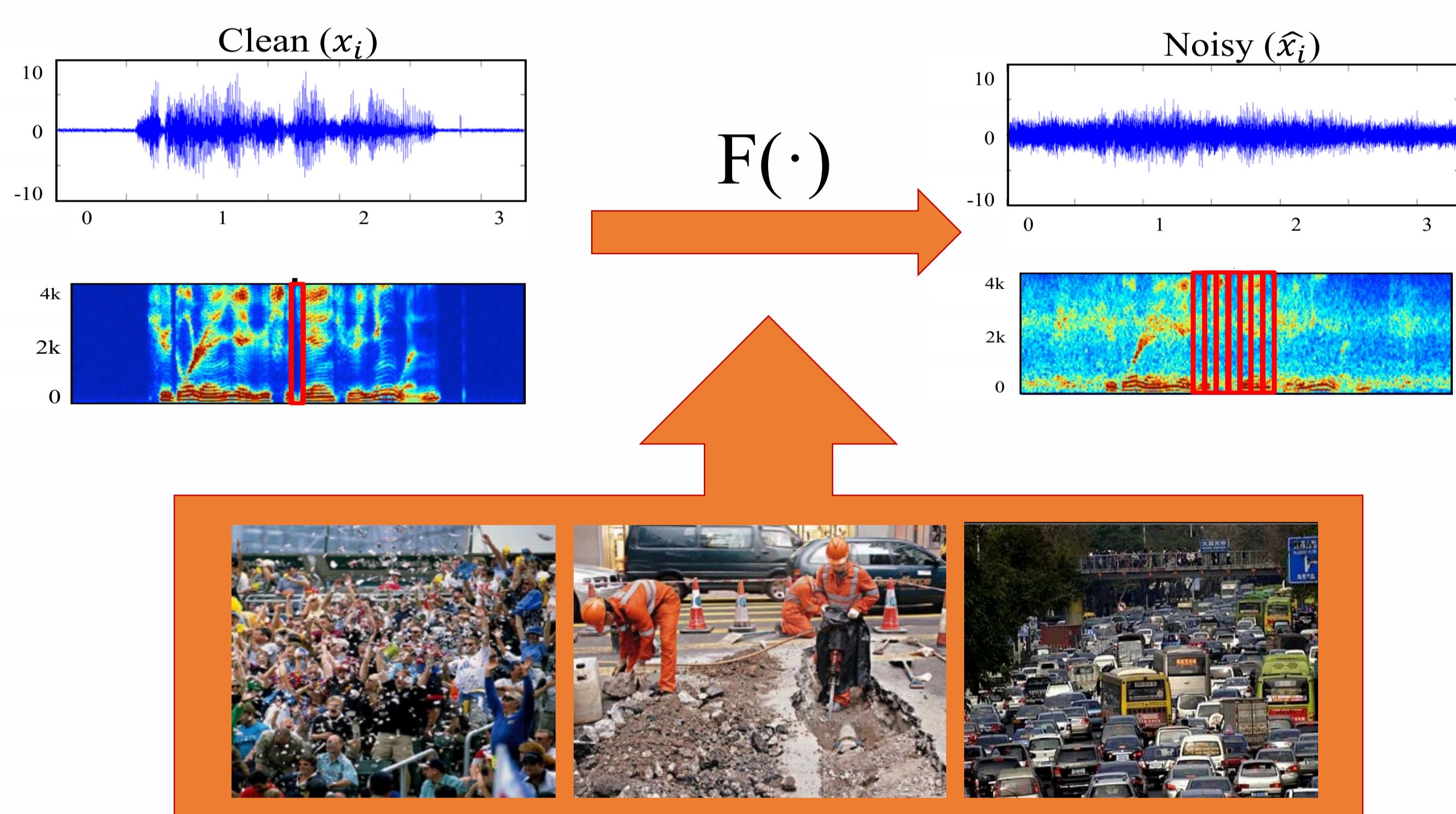


Forensics

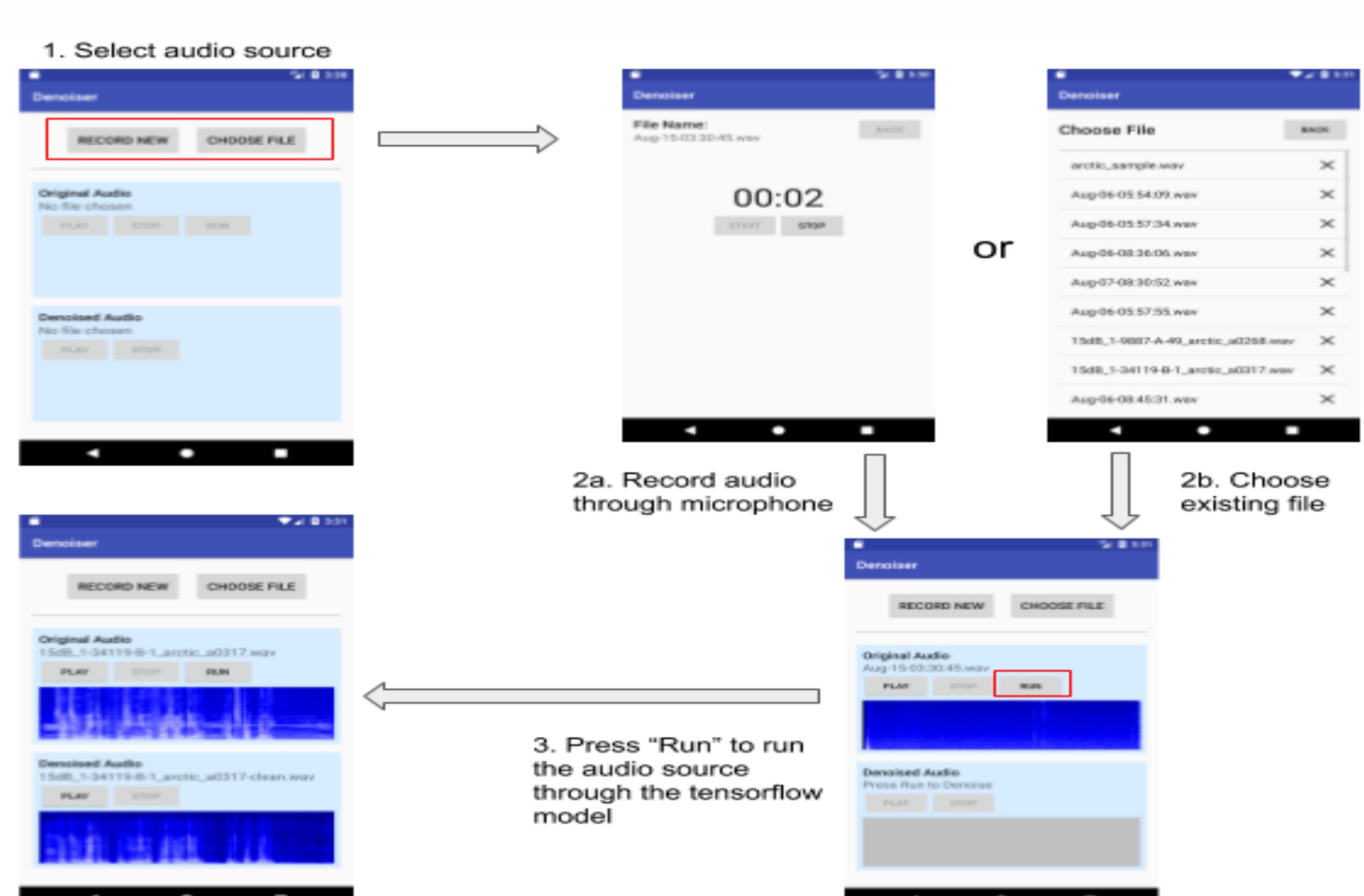


Bio-acoustics

Health Care

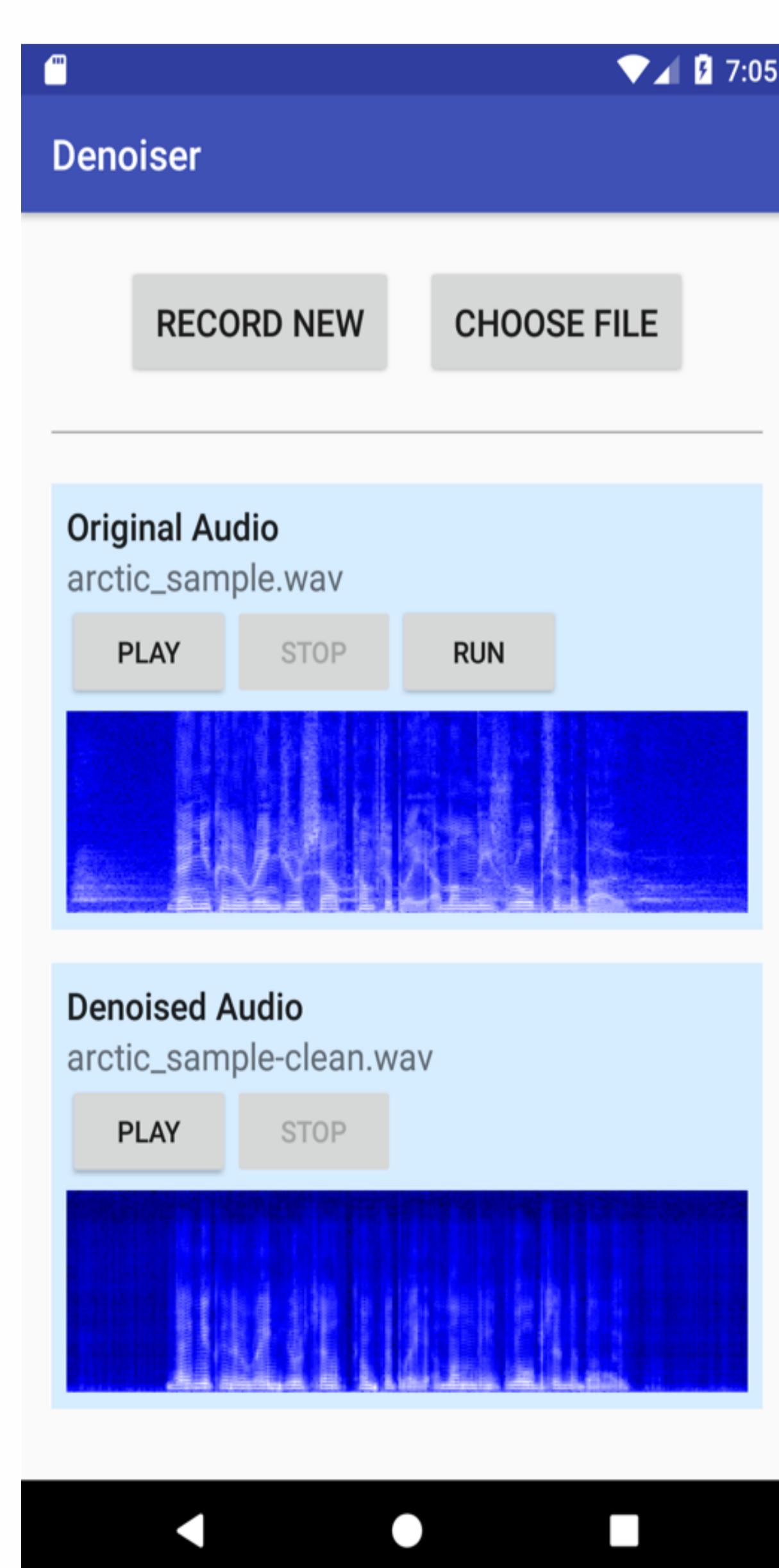
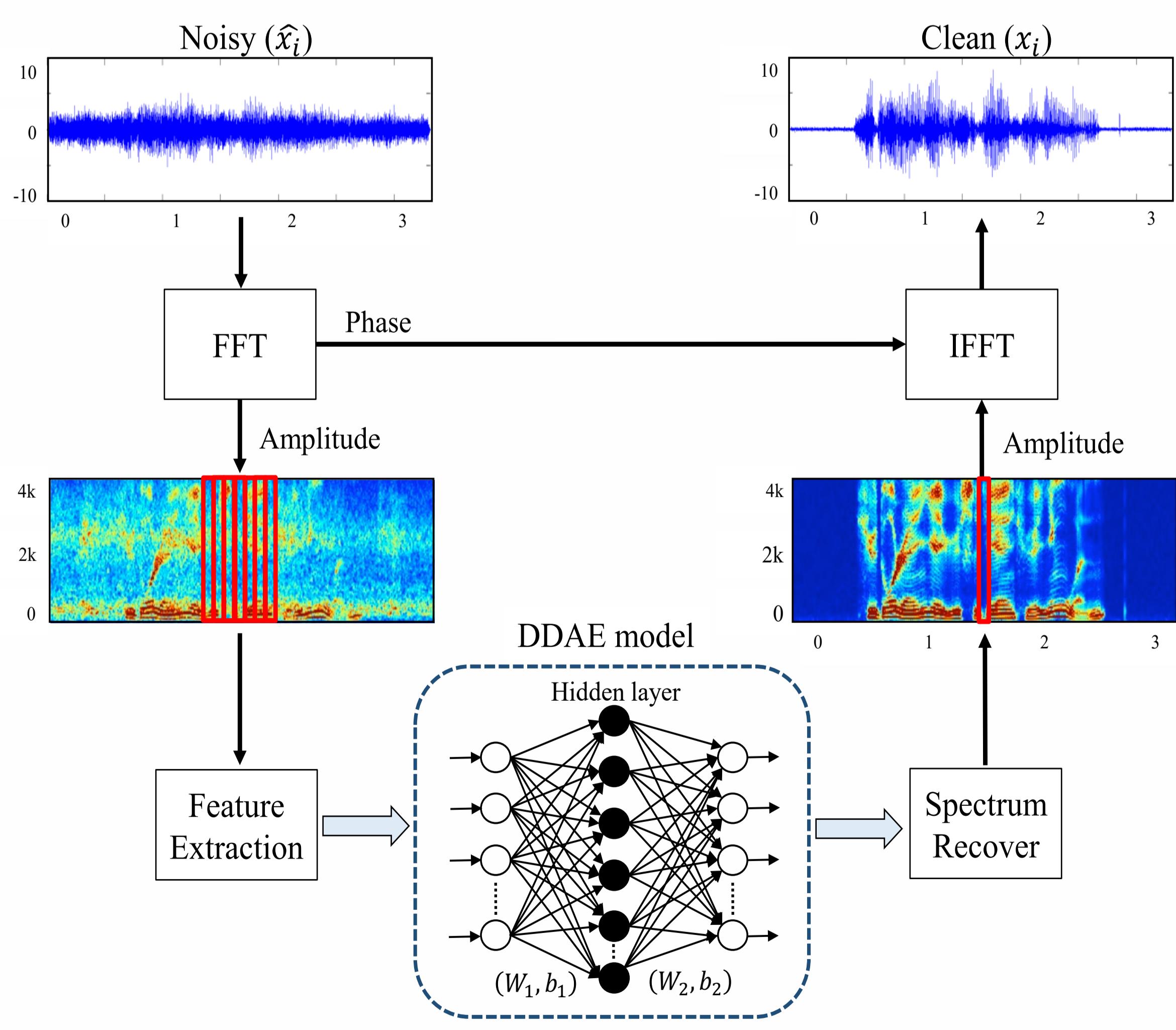


手機版操作介面



造成影響：語音理解度、音訊品質、聽感疲勞度

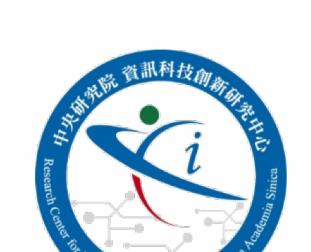
深度學習除噪系統



1. Y.-H. Lai, F. Chen, S.-S. Wang, X. Lu, Y. Tsao, and C.-H. Lee, "A Deep Denoising Autoencoder Approach to Improving the Intelligibility of Vocoded Speech in Cochlear Implant Simulation," IEEE Transactions on Biomedical Engineering, volume 64, number 7, pages 1568 - 1578, July 2017.

2. Y.-H. Lai, Y. Tsao, X. Lu, F. Chen, Y.-T. Su, K.-C. Chen, Y.-H. Chen, L.-C. Chen, P.-H. Li, and C.-H. Lee, "Deep Learning based Noise Reduction Approach to Improve Speech Intelligibility for Cochlear Implant Recipients," Ear and Hearing, volume 39(4), number 4, pages 795-809, July 2018, This work receives the National Innovation Award 2018 (2018年國家新創獎, 2019年新創精進獎)

中央研究院108年院區開放參觀活動



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