

## **Annex B**

### **List of HX-IS 1.0 Sandbox Use-cases**

1. **AI ECHO Co-Pilot:** provides a machine learning-based solution to acquire and analyse cardiac ultrasound images for diagnosing heart failure by nurses in primary care setting. The solution can be used as a tool to help nurses in the primary care setting identify patients at risk of heart failure.
2. **FXMammo:** Artificial intelligence is being utilised to enhance and lower the costs of mammography screening, by promoting greater adoption and facilitating early screening for breast cancer.
3. **Healthcare Classifier:** Fine-tune and evaluate the Large Language Models (LLMs) engine for detecting adverse drug effects.
4. **iScreen:** Detection and classification of Intracranial Hemorrhage (ICH) and target to achieve performance metric of at least 0.90 F1 score for detection of ICH.
5. **Healthcare Classifier 2:** Utilised state-of-the-art (SOTA) open-source LLMs for clinical text classification. Benchmarked with leading text classifiers, while evaluating their performance and cost-effectiveness.
6. **Mental Health Assessment:** Voice based mental health assessment study via mobile app.
7. **Visual Acuity Testing:** Patient self-administered automated visual acuity stations.
8. **3D Gait:** Using 3D gait to monitor stroke patient and rehabilitation recovery progress.
9. **Tandem Multi-Cloud:** Fast track GenAI exploration work for Tandem. Build and test GenAI to tackle real-world challenges in day-to-day operations.
10. **Lung Function Test:** AI-enable chatbot to improve the efficiency and user experience of the Lung Function Test process.
11. **Cybersecurity Self-Attestation Portal (CSAP):** A web-based advisory based application that allows vendors/partners to attest to their solutions design with reference to Public Healthcare policy.