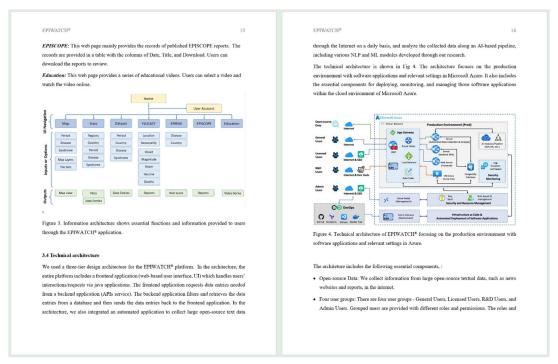
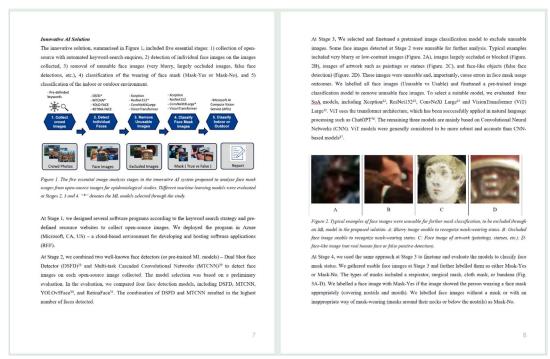
Demo of some previous projects

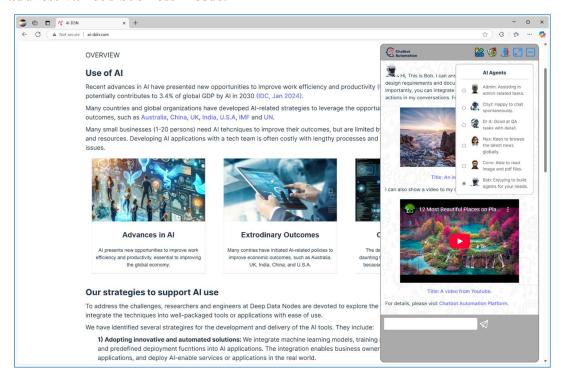
Appendix 1: A screenshot of the design document for the EPIWATCH project, showing the design architecture in Azure.



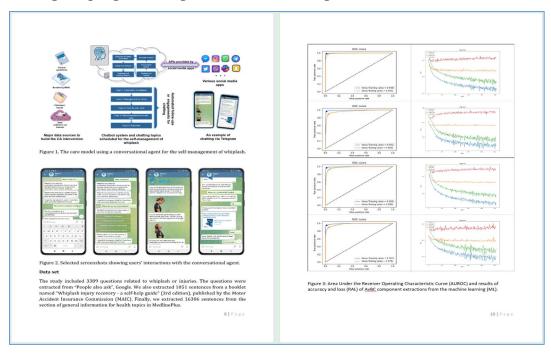
Appendix 2: A screenshot of the design document of the face-mask project, showing the pipeline to assess the face mask usage from large open-source data globally.



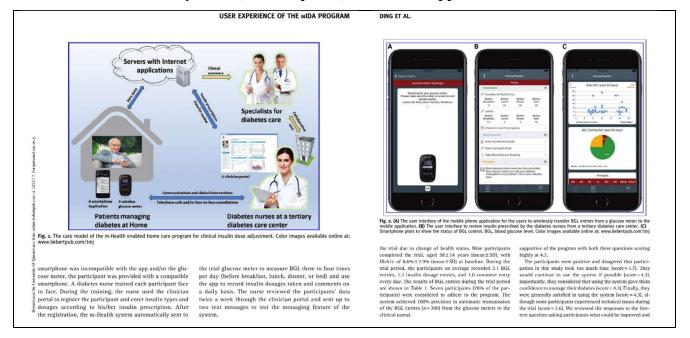
Appendix 3: A screenshot of a chatbot application, showing the use of LLMs and RAG to address various business' needs.



Appendix 4: A screenshot of a chatbot application for the self-management of whiplash, showing the program design and model training outcomes.



Appendix 5: Screenshots of an mHealth program for the self-management of diabetes, showing the care delivery model, clinical portal, and mobile app.



Appendix 6: Research grants.

- 1. Experienced Researcher Grants from The Prince Charles Hospital Foundation a randomized controlled trial for COPD (Prof Ian Yang, CI, The Prince Charles Hospital; **Dr Hang Ding**, CI, CSIRO; \$100,000; and 2015 2019).
- Health Market Validation multicentre randomized controlled trial for home-based heart failure care. (Mr Iain Edwards, CI, Peninsula Health; **Dr Hang Ding**, AI, CSIRO; Dr Mohan Karunanithi, AI, CSIRO; Dr Rajiv Jayasena, AI, CSIRO; MEAPACS, Medtech Global; \$1,500,000; and 2013-2018).
- 3. Health Market Validation, Feasibility Study– Heart Failure. Medtech Global, Peninsula Health, CSIRO (**Dr Hang Ding**, Dr Rajiv Jayasena; \$100,000; and 2013-2016).
- 4. The Enterprise Connect Researchers in Business program, CSIRO, (**Dr Hang Ding**, Dr Mohan Karunanithi, Dr Rajiv Jayasena; \$100,000; and in 2013).

Appendix 7: Selected journal publications (A the First Author)

1. **H Ding**, J Simmich, A Vaezipour, N Andrews, T Russell. Evaluation framework for conversational agents with artificial intelligence in health interventions: a systematic scoping review. Journal of the American Medical Informatics Association 31 (3), 746-761. 2024.

- 2. **H Ding**, SH Chen, I Edwards, R Jayasena, J Doecke, J Layland, IA Yang, et. al. Effects of different telemonitoring strategies on chronic heart failure care: Systematic review and subgroup meta-analysis. Journal of Medical Internet Research 22 (11), e20032, 2020.
- 3. **H Ding**, R Jayasena, SH Chen, A Maiorana, A Dowling, J Layland, et. al. The effects of telemonitoring on patient compliance with self-management recommendations and outcomes of the innovative telemonitoring enhanced care program for chronic heart failure. Journal of medical Internet research 22 (7), e17559, 2020.
- 4. **H Ding**, F Farhad, A Maiorana, et al. Digital Health for COPD care: the current state of play. Journal of thoracic disease. Vol 11, Supplement 17 (October 2019).
- 5. **H Ding**, M Karunanithi, D Ireland, et al. Evaluation of an innovative mobile health programme for the self-management of chronic obstructive pulmonary disease (MH-COPD): protocol of a randomised controlled trial. BMJ Open. 2019;9(4): e025381.
- 6. **H Ding**, F Fatehi, AW Russell, et al. User Experience of an Innovative Mobile Health Program to Assist in Insulin Dose Adjustment: Outcomes of a Proof-of-Concept Trial. Telemedicine and E-Health, 1 July 2018; Vol. 24, No.7.
- 7. **H Ding**, R Jayasena, A Maiorana, et al. Innovative Telemonitoring Enhanced Care Programme for Chronic Heart Failure (ITEC-CHF) to improve guideline compliance and collaborative care: protocol of a multicentre randomised controlled trial. BMJ Open 2017; 7(10): 8.
- 8. **H Ding**, M Karunanithi, Y Kanagasingam, J Vignarajan, Y Moodley. A pilot study of a mobile-phone-based home monitoring system to assist in remote interventions in cases of acute exacerbation of COPD. Journal of Telemedicine and Telecare 2014; 20: 128-34.
- 9. **H Ding**. Characterization of local complex structures in a recurrence plot to improve nonlinear dynamic discriminant analysis. Physical Review E 2014; 89.
- 10. **H Ding**, S Crozier, S Wilson. Optimization of Euclidean distance threshold in the application of recurrence quantification analysis to heart rate variability studies. Chaos Solitons & Fractals 2008; 38(5): 1457-67.
- 11. **H Ding**, S Crozier, S Wilson. A new Heart rate variability analysis method by means of quantifying the variation of nonlinear dynamic patterns. Ieee Transactions on Biomedical Engineering 2007; 54(9): 1590-7.

Appendix 8: Selected conference papers (As the first author)

1. **H.Ding**, A. Quigley, and R. MacIntyre. Analysing Open-source Images to Assess Face Mask Usage for Epidemiological Studies. Oral presentation, International Congress on Infectious Disease, 2024, Cape Town, South Affrica.

- 2. **H Ding**, M Gonzalez-Garcia, M Varnfield, et al. Limited functional capacity and physical activity associated with patient withdrawals from cardiac rehabilitation. ESC Congress 2019 European Society of Cardiology. 31 August 4 September 2019, Paris, France.
- 3. **H Ding**, I Yang, D Ireland, L McCarthy, et al. Use of mobile health to improve patient adherence to the management of chronic obstructive pulmonary disease. HIC 2016. Brisbane, QLD, Australia.
- 4. **H Ding**, M Karunanithi, F Fatehi, A Menon, D Bird, A Russell. User acceptance of an innovative mobile health enhanced delivery of insulin initiation and titration program for patients with type 2 diabetes. Successes and Failures in Telehealth-7th Annual Meeting of the Australasian Telehealth Society. Auckland, New Zealand: the Australasian Telehealth Society; 2016.
- 5. H Ding, M Karunanithi, M Duncan, D Ireland, M Noakes, and C Hooker, "A mobile phone enabled health promotion program for middle-aged males," Conference proceedings: Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference, vol. 2013, pp. 1173-6, 2013, 2013.
- 6. H Ding, Y Moodley, Y Kanagasingam, and M Karunanithi, "A mobile-health system to manage chronic obstructive pulmonary disease patients at home," Conference proceedings: Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference, vol. 2012, pp. 2178-81, 2012, 2012.