

Multi-model UK score



Overview

UKB-MDRMF is a standardized framework that leverages UK Biobank's multimodal data to predict risks across 1,560 diseases. It integrates multimorbidity mechanisms, improving prediction performance and enabling comprehensive disease risk and interaction assessments. It separates generation from evaluation and utilizes a combination of models from Frontier labs including Anthropic and OpenAI. One model leads the generation phase, planning the task, iterating through. We assess the UK Biobank (UKB) Polygenic Risk Score (PRS) Release, a set of PRSs for 28 diseases and 25 quantitative traits that has been made available on the individuals in UKB, using a unified pipeline for PRS evaluation. We also release a benchmarking software tool to enable like-for-like. Design, Setting, and Participants: This prospective population-based UK Biobank cohort study assessed 4 dementia risk scores at baseline (2006-2010) and ascertained incident dementia during the following 10 years. Replication with a 20-year follow-up was based on the British Whitehall II study. 2% of 21 disease types showing improved.

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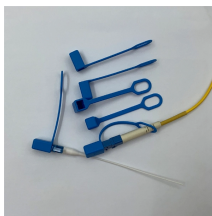
Designed to tackle complex research in the flow of work, Researcher now goes further with two new multi-model capabilities that raise the bar for accuracy, depth, and confidence: Critique ...



Our work addresses these challenges by integrating multimodal data from the UK Biobank, including basic, lifestyle, measurement, environment, genetic, and imaging data.



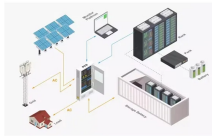
Here, the authors present UKB-MDRMF, a framework that predicts health risks for 1,560 diseases using data from the UK Biobank data. UKB ...



Here, the authors present UKB-MDRMF, a framework that predicts health risks for 1,560 diseases using data from the UK Biobank data. UKB-MDRMF is designed to transcend the ...



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To evaluate how well each score predicted the 10-year risk of dementia, concordance (C) statistics, detection rate, false-positive rate, and the ratio of true to false positives were calculated for ...



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Four methods for developing CPMs that respect the dependence between multiple binary outcomes. So, what next? What about different outcome types? Feel free to get in touch if you are interested in ...



We validated all scores for the three outcomes (death, GP consultation rate and cancer diagnosis), to identify to what extent the scores are good predictors of poor health outcomes in general, and the ...



We used UK age-stratified data for cancer incidence and integrated the sensitivity and specificity of real-world screening tools to model cancer detection rates for the five PRS-defined ...



We introduced UKB-MDRMF, a Multi-Disease Risk and Multimorbidity Framework designed for individual multi-disease prediction and health risk assessment across 1560 diseases.

Contact Us

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