Annotated Bibliography of Sources for a Personalized Medicine Dashboard

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Purpose of References

While I am still in the process of collecting references and data sources, this bibliography displays current key sources that mostly exist in personalized medicine, genomics, and the application of machine learning to health data. Two primary articles provide conceptual foundations: Goetz and Schork (2018) Goetz and Schork, 2018 lays the foundation for my future work through introducing personalized medicine and its challenges, while Brittain, Scott, and Thomas (2017) Brittain et al., 2017 trace the usage of genomic approaches in clinical care.

After introducing the papers who lay basic foundations in the topic at hand, I focus on more applied perspectives such as, Wang et al. (2023) Wang et al., 2023 who describes the use of electronic health records as research data within machine learning as I plan on integrating EHR into the dashboard being built (which a dataset is still needed). Additionally, Iyengar et al. (2022) Iyengar et al., 2022 discuss how emerging Industry 5.0 technologies influence orthopedic applications which is nice to put in comparison for the scope moving forward with technology.

Finally, the human genome assembly GRCh38.p14 (Genome Reference Consortium, 2022) Genome Reference Consortium, 2022 serves as the primary data source for genomic analyses. Another dataset I will lean on is Fuller (2020) Fuller, 2020 which provides the dataset we will use to explore wearable-device-based activity classification. These datasets will allow the dashboard to provide insightful feedback to practitioners.

References

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