





Hasso Plattner Institute for Digital Health at Mount Sinai

Chair Prof. Wieler Digital Global Public Health

& HPI-MS

Title: **Development of Foundation Model Embedding Service and API** Supervisors: Lothar Wieler, Thomas Fuchs, Gabriele Campanella

Description: The Department of AI and Human Health at Mount Sinai is spearheading the development of large-scale foundation models for a variety of data modalities trained on health system-level datasets. These efforts can greatly benefit the research community by providing modality-specific pre-trained embedding models that, given the scale of pre-training, are likely to generalize better to downstream tasks. To foster open scientific development, we plan to open the embedding models through an API. The goal of this Master's thesis is to develop a service that exposes through an API the embeddings generated by several foundation models trained by researchers in the AI Department. The solution will include processes for data ingestion, model inference, and results reporting. Additionally, a python API will be implemented and released as a package.

Please reach out to Gabriele Campanella to learn more.