Proposals on Product Development towards Combating COVID 19 Outbreak
An Initiative from IIT Kharagpur

Category: Data Analytics / AI to model Epidemic Patterns and Diseases Dynamics

Title: H+AI (Healthcare and Artificial Intelligence) Dataport and Factory

Expected Outcome:
1. Dataport
    a.   Submission of COVID-19 anonymized case reports including Clinical notes, rRT-PCR, Radiographs and observation annotations
2. Case Report browser for evidence based medicine
    a.   Ever growing case and annotation registry, featuring RADS and clinical notes
    b.   Semantic search for similar treatment and outcome retrieval for evidence based medicine
3. Reporting and Data Standards (RADS) Builder: AI assisted, knowledge graph based revision.
4. Factory for AI technology development to enabling features on Dataport, Case

Expected Timeline: Week -1: COVID-19 RADS v0.2 released on 30 Mar. 2020, Week 2: Dataport and Case Report Ready with basic functionality, Week 4: COVID-19 RADS v1.0 (Revised from v0.2) released, Week 5: Annotated datasets released for AI model builders, Week 6: AI Model Zoo ready, Week 8: Factory ready with AI tools and techniques, Week 10: RADS Builder ready and released, Week 12: Case Reports v2.0 ready and released.

Remarks: Funding required Rs. 25 Lakh for 3 Weeks

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