

Project Title: Pixel Pioneers: Expanding a nonprofit's AI medical screening abilities to Tuberculosis

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Sponsor Organization: Virufy

Capstone Archives Permission: Yes

Abstract:

Low income populations often lack access to health insurance that enables them to test for illnesses. Tuberculosis alone carries an estimated price tag of \$287 per test in the United States. In an effort to counter this out-of-pocket expense, we constructed an advanced machine learning model that predicts the likelihood an individual has Tuberculosis with high accuracy. The prediction is based on symptoms, demographics, and a self recorded cough recording, and the process is quick and easy with the help of a chatbot. By using our application, individuals can make an informed decision about whether medical intervention is necessary.