



ARAB ACADEMY FOR SCIENCE, TECHNOLOGY, AND MARITIME TRANSPORT

COLLEGE OF COMPUTING AND INFORMATION TECHNOLOGY

Academic Year: 2020

Semester: 8

Senior Project Summary Report

Project Title	<i>Smart (TB) Detection</i>	
Supervisor(s)	Dr. Essam Elfakharany , Dr.Nahla Belal	
Team members:	Names Reda Abdelhamid Ali Elsewidy Ahmed Yosry Akrab Omar Ashraf Elashmony	Registration Numbers 16104536 16107536 16107497
Project Deliverables	<i>Machine learning model, Smart (TB) portal (Front end + Backend), Smart (TB) documentation</i>	
Local Impact (G.1.)	<i>Help and facilitate in the process of diagnosing the tuberculosis disease in Egypt correctly with an accurate result via web app channel.</i>	
Global Impact (G.2.)	<i>Fighting the spread of TB disease which can lead to economic problems due to a TB pandemic that may occur.</i>	
Team Organization (D)	<i>Reda Abdulhamid Ali Elsewidy:</i> <i>backend, forming AI model, creating the project video, help in creating the project documentation, help in creating presentation and help in creating the project poster.</i> <i>Ahmed Yosry Akrab:</i> <i>frontend, designing UMLs , designing ERD, create business model canvas, help in creating documentation, help in creating presentation ,create the project poster and create time plan.</i> <i>Omar Ashraf Elashmouny:</i> <i>Help in the backend, create the portal logo and prepared the project introduction.</i>	
Ethical Considerations (E.1.)	<i>The medical trust requires us not to let the patient diagnose himself without consulting a doctor, so through Smart (TB) portal patient can send his x-ray test to the doctor, then the doctor is responsible for the diagnosis of his X-ray test.</i>	
Social Impact (E.2.)	<i>Spreading the cultural awareness of everyone towards artificial intelligence and its importance, and it is an aid to the doctor when diagnosing the patient.</i>	
Professional Responsibility (E.3.)	<i>Build a machine learning model with an accurate result. Build an interactive Smart (TB) portal with and achieve all usability goals. secure the web app from malware, attacking, viruses and sql injection. following the agile software process.</i>	

Supervisor Name	Signature
Dr. Essam Elfakharany	
Dr. Nahla Belal	