National College of Ireland

Configuration Manual

MSc Research Project

Mitigating Bias in Fitbit Data: A Comprehensive Analysis and Model Enhancement using Ensemble learning.

Olayinka Mayowa Jayeoba

X22178759

School of Computing
National College of Ireland

Supervisor: Anh Duong Trinh

National College of Ireland

MSc Project Submission Sheet

School of Computing

Student Name:	Olayinka Mayowa Jayeoba……
Student ID:	X22178759
Programme:	Artificial Intelligence for business. **Year:** 2023.
Module:	MSc Research Practicum/Internship.
Lecturer:	Anh Duong Trinh
Submission Due Date:	January 5, 2024.
Project Title:	Mitigating Bias in Fitbit Data: A Comprehensive Analysis and Model Enhancement using Ensemble learning.
Word Count:	444… **Page Count: 3**……

I hereby certify that the information contained in this (my submission) is information pertaining to research I conducted for this project. All information other than my own contribution will be fully referenced and listed in the relevant bibliography section at the rear of the project.
ALL internet material must be referenced in the bibliography section. Students are required to use the Referencing Standard specified in the report template. To use other author's written or electronic work is illegal (plagiarism) and may result in disciplinary action.

Signature: ……

Date: January 4th 2024.

PLEASE READ THE FOLLOWING INSTRUCTIONS AND CHECKLIST

Attach a completed copy of this sheet to each project (including multiple copies)	□√
Attach a Moodle submission receipt of the online project submission, to each project (including multiple copies).	□√
You must ensure that you retain a HARD COPY of the project, both for your own reference and in case a project is lost or mislaid. It is not sufficient to keep a copy on computer.	□√

Assignments that are submitted to the Programme Coordinator Office must be placed into the assignment box located outside the office.

Office Use Only	
Signature:	
Date:	
Penalty Applied (if applicable):	

Configuration Manual

Olayinka Mayowa Jayeoba
X22178759

Section 1

System Specification

The output produced was conducted in Python programming language where libraries like panda, numpy, shap, sklearn, and statmodels were used for data transformation, manipulations, and model developments. To get good work in a programming environment, I used a Windows operation system with specifications of the following

Processor	Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz 1.80 GHz
Installed RAM	12.0 GB (11.9 GB usable)
System type	64-bit operating system, x64-based processor

Section 2

Programming environment

To produce an output conducted in Python programming language where libraries like panda, numpy, shap, sklearn, and statmodels were used for data transformation and manipulations and model developments.
An organized programming interface called ‘‘PyCharm’’ is used. This is wildly used by professional data scientists, it is a platform that can connect to different data sources, perform model development and so on.
Below is a screenshot of the PyCharm application interface.