Low Level Document (LLD)

**Life Expectancy Prediction**

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**DECLARATION**

We declare that this written submission represents us ideas is our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources.

We also declare that we have adhered to all principles of academic honesty

and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission.

We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when

needed.

**Revision History**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Reviewer** | **Approver** | **Comments** |
| 0.1 | 15-01-2023 | Muhammed Shibil | Muhammed Shibil |  | Draft version |
| 0.2 | 15-01-2023 | Muhammed Shibil | Muhammed Shibil |  | Suggested some selections like key notes, screen validations and attributes to be added |
| 0.3 | 16-01-2023 | Muhammed Shibil | Muhammed Shibil |  | Suggested document format related comments like correction of version, adding one sections for open issues etc |
| 0.4 | 16-01-2023 | Muhammed Shibil | Muhammed Shibil |  | Suggested some changes like correct sequence diagram, changes in data design sections etc |
| 1.0 | 16-01-2023 | Muhammed Shibil | Muhammed Shibil |  | Baseline version |

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10. **Introduction:**

**1.1 Scope of the Document**

* This section will cover details regarding scope of the document
* Low level design document will be at component level i.e., for website portal there will be one LLD

**1.2 Intended Audience**

* This section will cover categories of audiences who will be referring/reviewing this document

**1.3 System Overview**

* This section will capture overview of system application i.e for what system is being developed
* Who are the stake holders of system?
* What are other external Systems through which this will be interacting

1. **Project Briefing:**

A life expectancy prediction tool is a tool that uses data such as demographic, medical, lifestyle and environmental information to predict the average number of years an individual is expected to live. The tool can be useful for individuals, healthcare providers, financial advisors, insurance companies and employers to plan for long-term health and financial goals. The tool should be accurate, reliable, user-friendly and consider privacy and ethical implications. To improve the tool, machine learning and artificial intelligence techniques, more data sources, and a user-friendly interface should be incorporated. The tool should also be designed to be reusable by providing an API and clear documentation.

1. **Problem Statement:**

The problem that a life expectancy prediction tool aims to solve is the lack of accurate and individualized information on life expectancy, which makes it difficult for individuals, healthcare providers, and financial planners to make informed decisions about long-term health and financial planning. The tool aims to provide individuals with personalized estimates of their life expectancy based on their specific demographic, lifestyle, and medical information, which could help individuals make more informed decisions about their health and financial planning.

1. **Problem Solution:**

The solution to this problem is to develop a life expectancy prediction tool that uses data such as demographic, medical, lifestyle and environmental information to predict the average number of years an individual is expected to live. The tool can provide individuals with personalized estimates of their life expectancy, which can help them make more informed decisions about their health and financial planning. The tool can also be used by healthcare providers to make more informed treatment decisions and plan for patients' long-term care. Additionally, it can be used by insurance companies to set premiums and assess risk, and by employers to plan for long-term workforce needs and make decisions around retirement benefits.

1. **Objective of the Project:**

To develop a life expectancy prediction tool that uses data such as demographic, medical, lifestyle and environmental information to predict the average number of years an individual is expected to live.

1. **Scope of Project:**

The scope of the life expectancy prediction tool project includes the following:

Development of a predictive model using demographic, medical, lifestyle, and environmental data.

Designing a user-friendly interface for individuals, healthcare providers, financial advisors, insurance companies, and employers to use.

1. **Requirements Gathering:**

* Window 10 Operating system
* Visual studio software
* Few Github Non copyrighted source codes

1. **Analysis:**

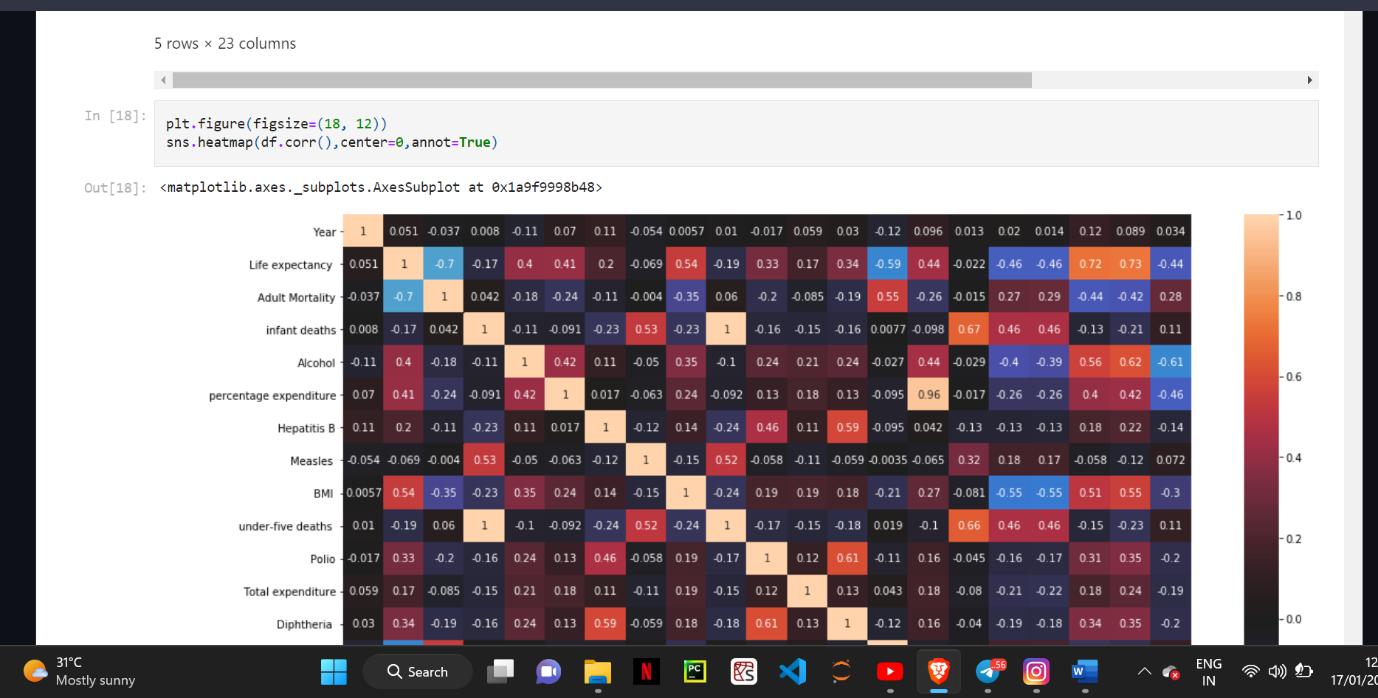
artificial intelligence techniques to improve the accuracy of predictions.

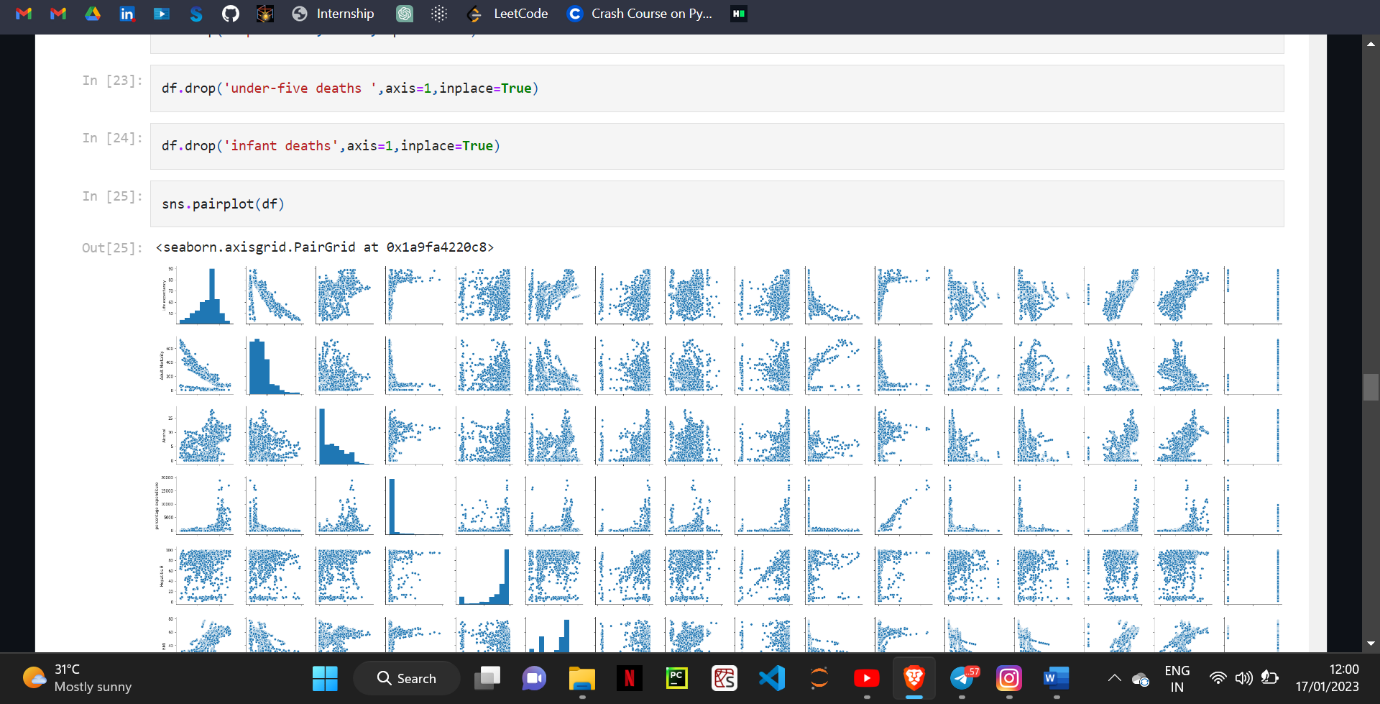
4. Incorporating more data sources to provide a more complete picture of an individual's life expectancy.

Addressing privacy and ethical concerns by implementing appropriate measures to protect users' personal information.

Providing clear and comprehensive documentation for the tool and an API for other developers to easily access and use the tool's functionality in their own applications.

1. **Final Screenshot of Project Output**

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