



# My Portfolio

**Alicia Kiyoumi Bastian**

# About Me

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Hi! I'm **Alicia Kiyoumi Bastian** from University of Indonesia that currently studying in Biomedical Engineering on my 2nd year with enthusiasm in the fields of medical imaging, artificial intelligence, and biomaterials. By learning these things, I can apply them in fields related to biomedical engineering to solve challenges in the medical and health industry. I also have a strong passion for improving my skills and exploring new things to upgrading myself.



# Education

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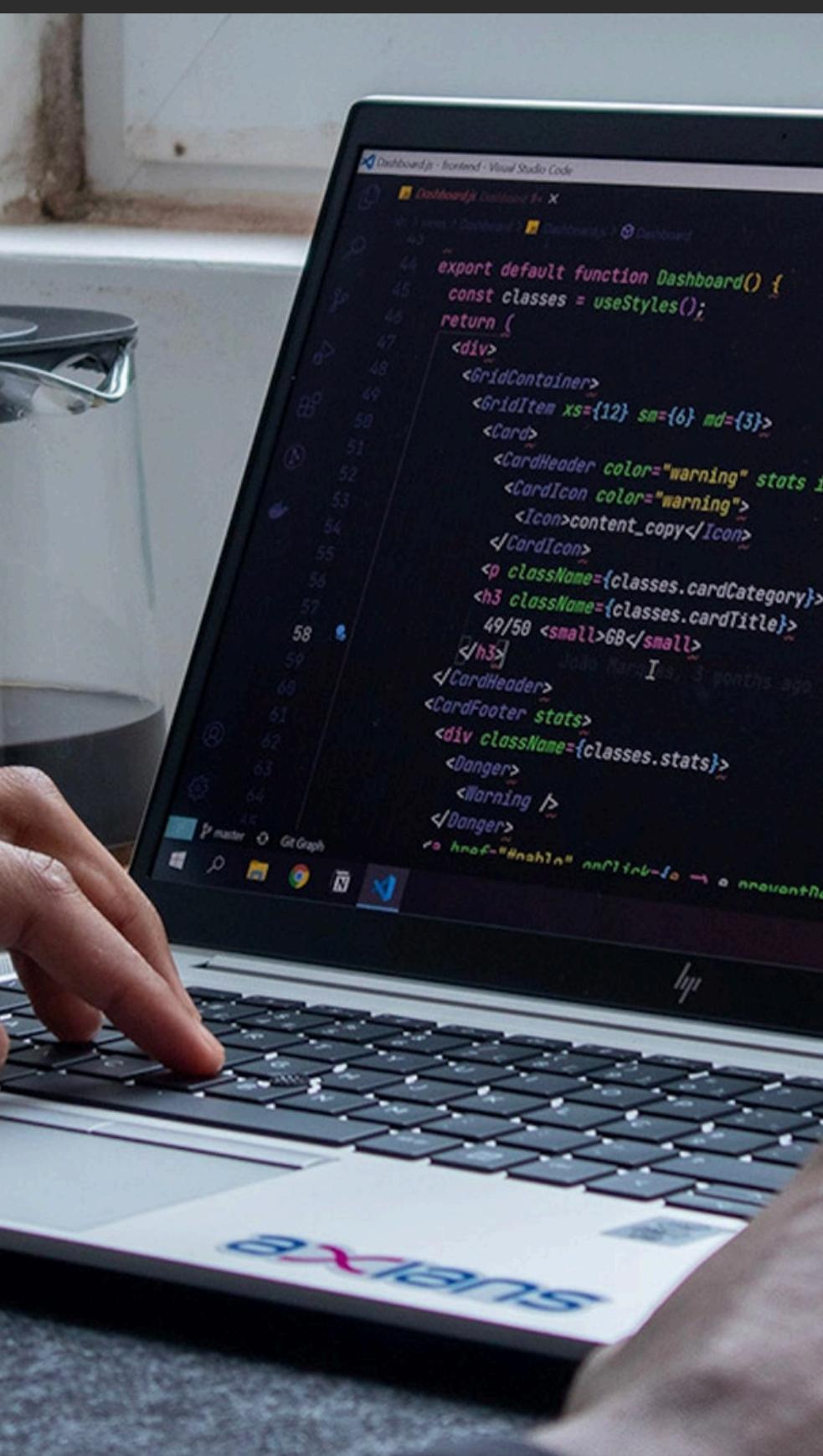
**(2020-2023)**  
**SMAN 34 Jakarta**

I have studied at SMAN 34 Jakarta majoring in Mathematics and Natural Sciences. During my time here, I served as the Chair of the Catholic Student Fellowship, where I developed strong leadership and communication skills.



**(2023-present)**  
**Biomedical Engineering Universitas Indonesia**

I am currently pursuing a degree in Biomedical Engineering at Universitas Indonesia, where I am learning how to apply engineering principles to solve medical challenges. This experience strengthens my analytical thinking and prepares me for a future career in research, innovation, or the medical device industry.



# Personal Skills

## 1. PROGRAMMING SKILLS

- C
- C++
- HTML
- CSS
- Python
- Javascript

## 2. DESIGN & EDITING SKILLS

- Figma
- Canva
- Capcut

## 3. MICROSOFT OFFICE

- Word
- Powerpoint
- Excel

# IEEE SB UI

## Organization

- Director of Internal Operation 2025
- Research and Development Staff 2024

## Volunteer

- Steering Committee for Membership and Consolidation 2025
- Steering Committee for Registration Digistar Telkom Indonesia x IEEE Indonesia Section
- Person in Charge for Quality Control 2024
- Steering Committee for Branding Techtonic IEEE SBUI 2025
- Vice Head of Competition Techtonic IEEE SBUI 2024
- Visitor at PT Hyundai Motor Manufacturing Indonesia 2024
- Visitor at PT Siemens Indonesia 2024



# KMK Teknik UI

## Organization

- Head of Finance 2025
- Vice Head of Research and Development 2024

## Volunteer

- Steering Committee for Human Resource Evaluation & Forum KMK Teknik UI 2024
- Steering Committee for Finance Administration & KMK Merch KMK Teknik UI 2025
- Vice Head of Fundraising and F&B Natal KMK Teknik UI 2023
- Vice Head of Fundraising and F&B Retret KMK Teknik UI 2024
- Volunteer for Aksi Sosial KMK Teknik UI 2025
- Event Staff for PPKB KMK TeknikUI 2024
- Event Staff for Weekend KMK Teknik UI 2024
- Public Relations Staff for PROSA KMK Teknik UI 2024



# ASBE UI

## Organization

- Human Resource Staff 2024

## Volunteer

- Master of Ceremony for Grand Opening ASBE UI 2024
- Person in Charge for Quality Control 2024
- Vice Head of Public Relations for Studi Banding ASBE UI x HMJ TEM PKJ 2 2024
- Participants of IoT : Pulse Oximeter Workshop 2024
- Participants of Portable ECG Workshop 2023
- Visitor + participants of Workshop at IMERI FKUI 2024



# Volunteers

## International Course FT UI

- Collaboration with Washington University 2025

## INNOVARE UI

- Media Partner Staff 2023

## OKK UI

- Mentor for OKK UI 2024

## IME FT UI

- Event Staff for Gladiator 2023
- Publications Staff for PSB Genap 2024
- Public Relations Staff for PSB Ganjil 2024
- Public Relations Staff for Makro & Madoee 2023

## NEST UI

- Sponsor Staff 2024

## BEM FT UI

- PKM KI (Karya Inovatif) Staff for OIM FT UI 2024



A screenshot of a code editor showing a file structure. The main file is profile.html, which contains HTML code for a "Cat Lovers Community" section and a "Gambar-gambar Kucing Lucu" section. It also includes a footer with a "Created by Alicia" message. Below the code editor is a snippet of CSS and JS code.

```
# style.css
html {
    font-family: sans-serif;
    margin: 0;
    padding: 0;
}

body {
    background-color: #f0f0f0;
    margin: 0;
    padding: 0;
}

main {
    background-color: #fff;
    border: 1px solid #ccc;
    padding: 10px;
}

.profile-header {
    border-bottom: 1px solid #ccc;
    padding-bottom: 5px;
}

.gallery-section {
    margin-top: 10px;
}

.image-gallery {
    margin-bottom: 10px;
}

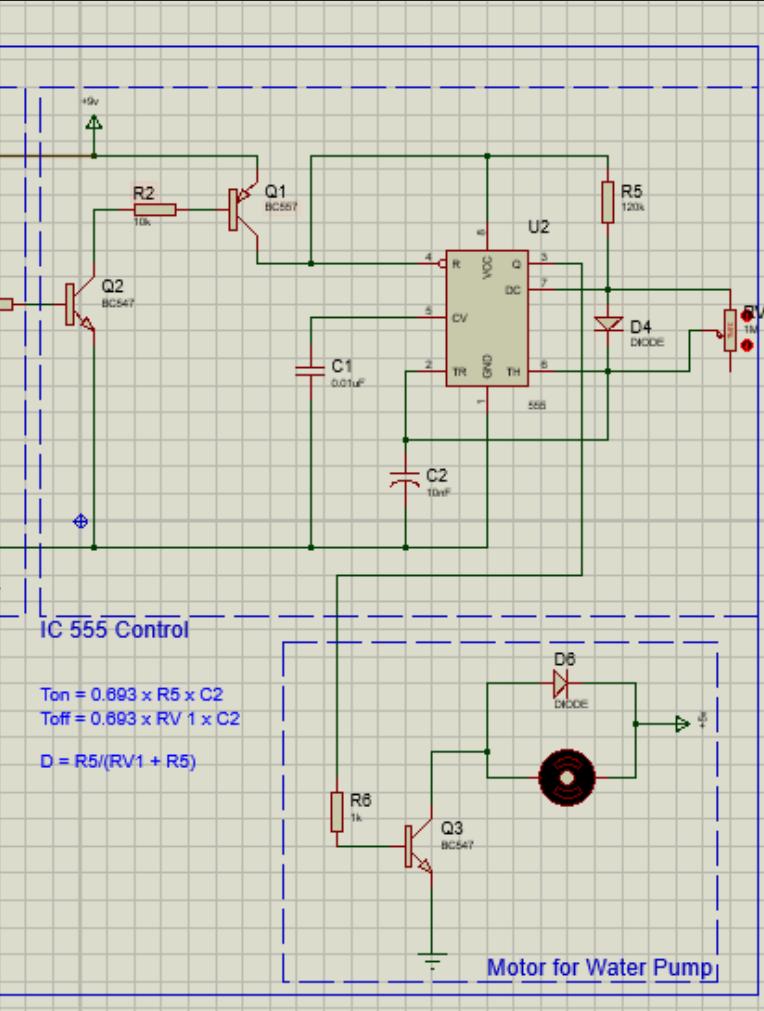
.image-gallery img {
    border: 1px solid #ccc;
    display: inline-block;
    width: 100px;
    height: 100px;
    vertical-align: top;
}

.container-footer {
    text-align: center;
}
```

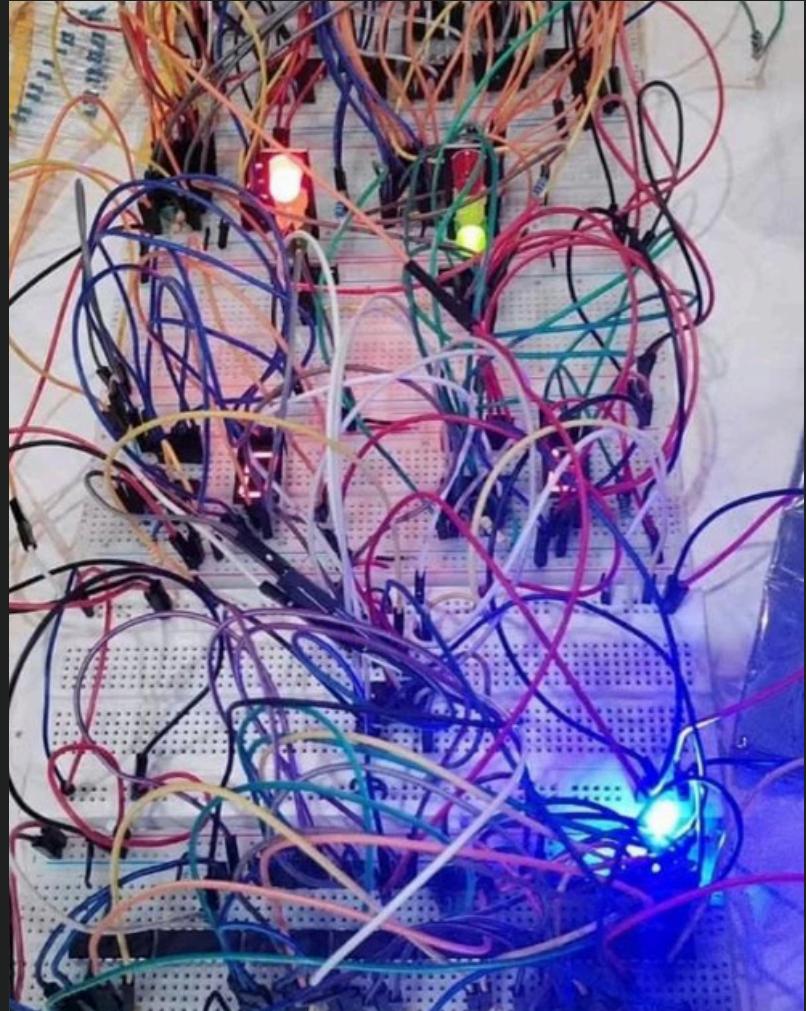
```
index.html
<!DOCTYPE html>
<html lang="id">
    <head>
        <meta charset="UTF-8">
        <title>Cat Lovers Community</title>
        <link href="style.css" rel="stylesheet">
    </head>
    <body>
        <div class="profile-header">
            <h1>Cat Lovers Community</h1>
            <p>Tempat para Cat Lovers mencerahkan perasaan dan <a href="#">berbagi</a></p>
        </div>
        <div class="gallery-section">
            <h2>Gambar-gambar Kucing Lucu</h2>
            <div class="image-gallery">
                
                
                
                
                
                
                
                
                
            </div>
        </div>
        <div class="container-footer">
            <p>Created by Alicia</p>
        </div>
    </body>
</html>
```

```
profile.html
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            </div>
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            <p>Created by Alicia</p>
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    </body>
</html>
```

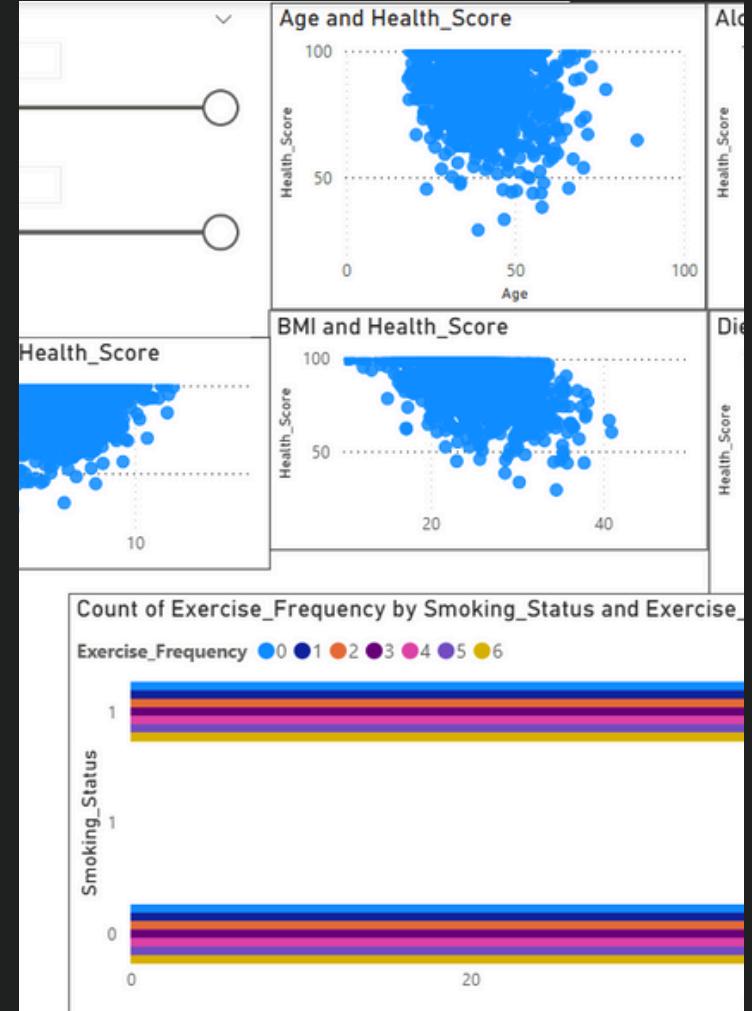
Front-End Project



Proteus Project



Hardware Prototype Project

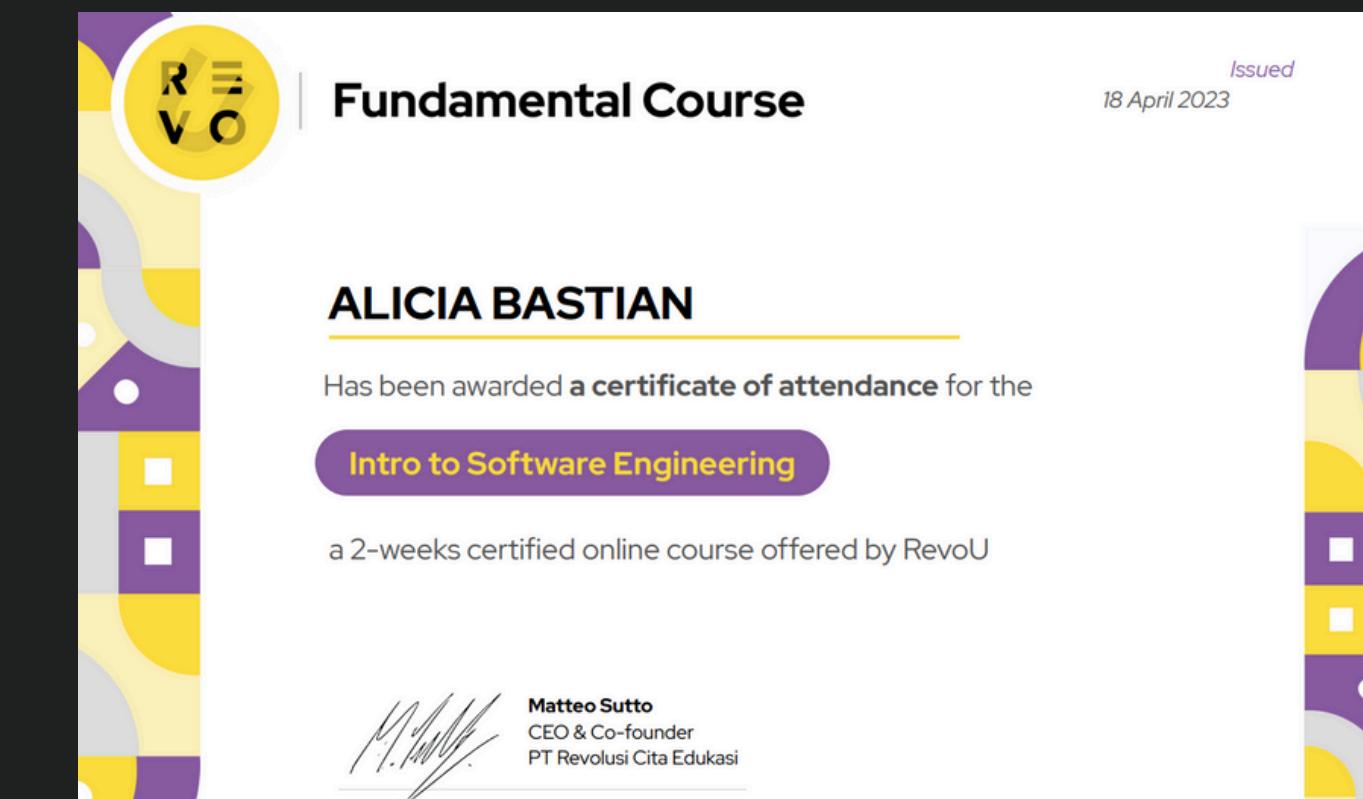
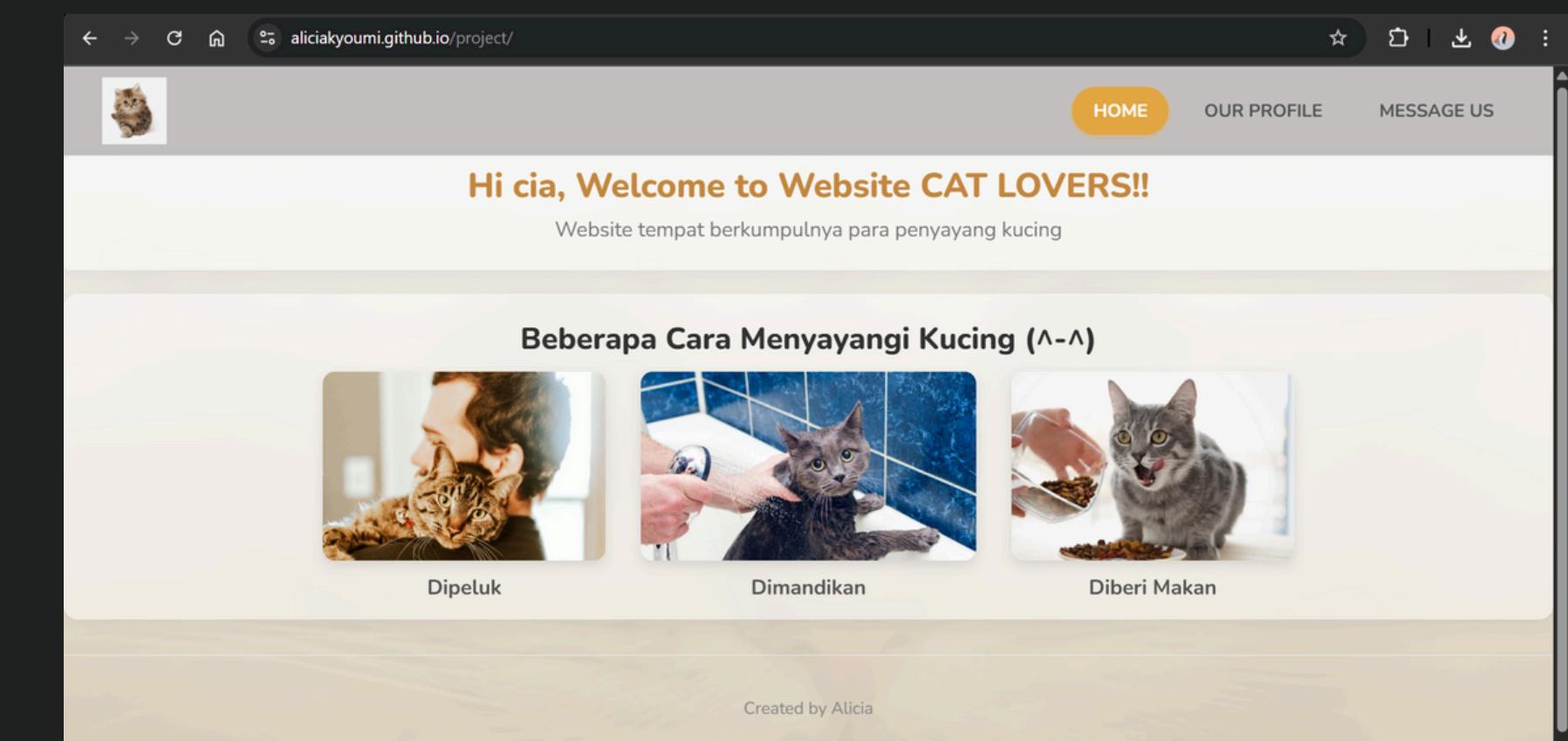


PowerBI Project



# 1st Project

Built a responsive and interactive web page using HTML, CSS, and JavaScript during RevoU's 2-week Fundamental Course.

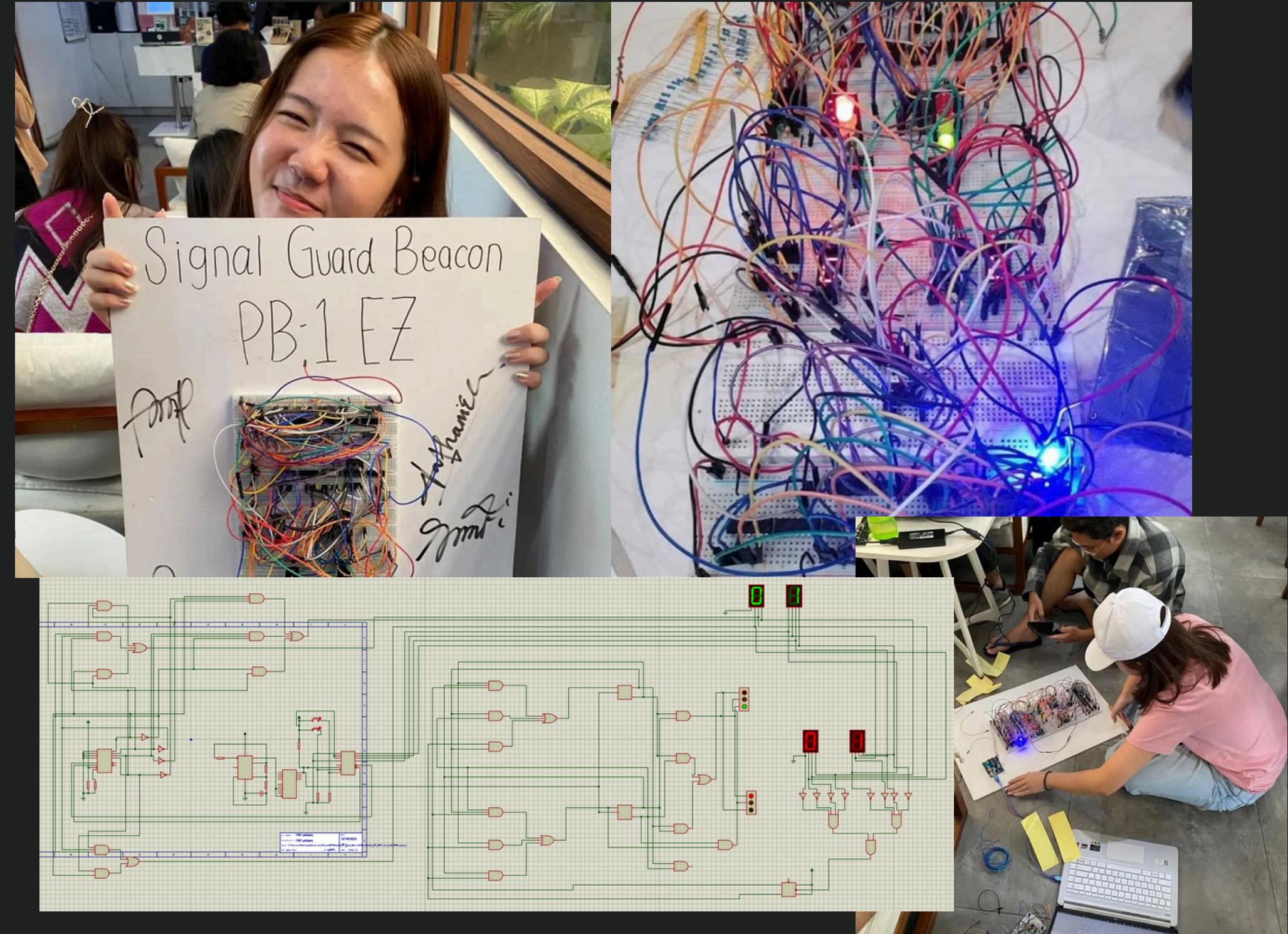
[Link Github](#)



# 2nd Project

Designed a traffic light control system for a four-way intersection to prevent collisions with prior simulation using Tinkercad and Proteus to ensure timing accuracy and functional safety

**Link Drive**

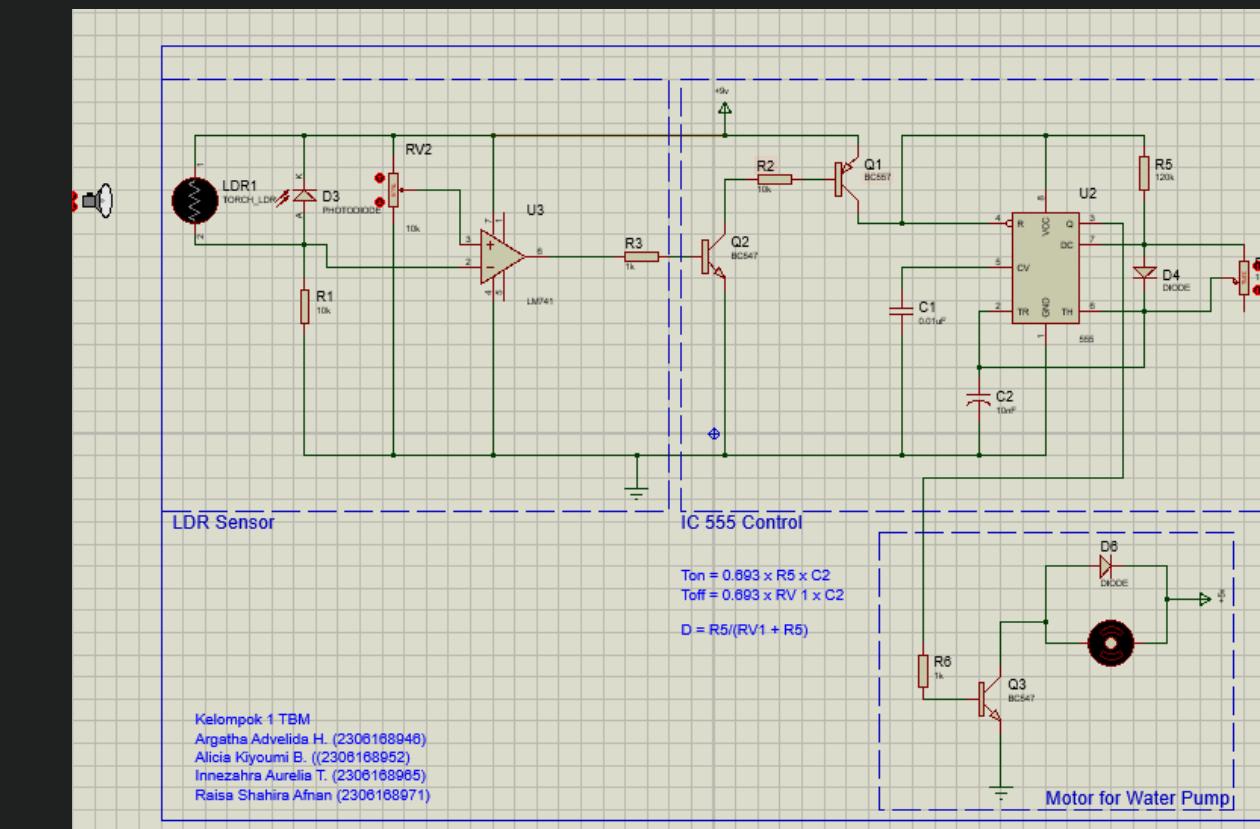




# 3rd Project

Developed an automatic handwashing system that detects hand presence without physical contact using Proteus and Tinkercad before implementation

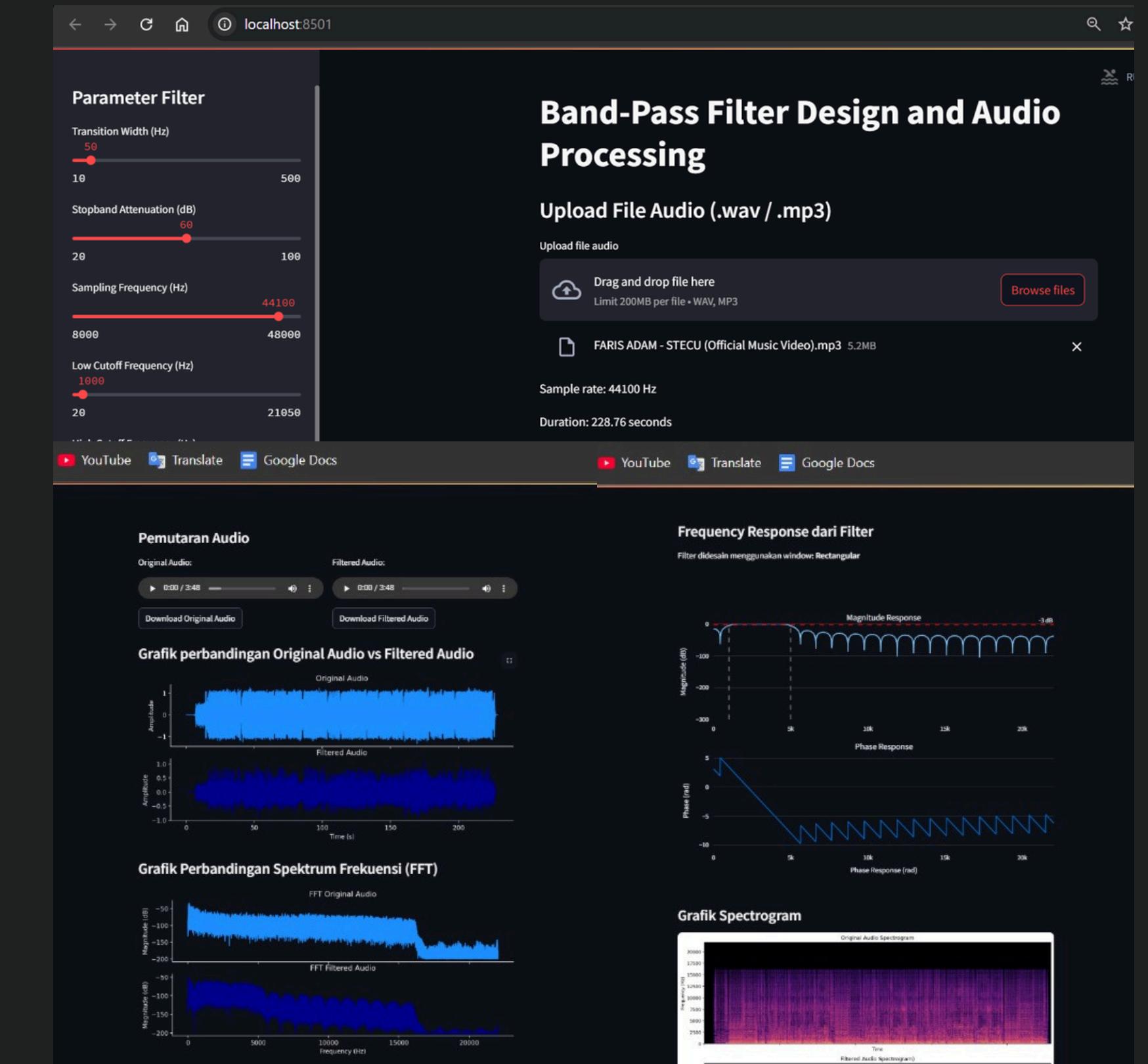
**Link Drive**





# 4th Project

Developed a web-based GUI using Streamlit and Python to implement a Band-Pass Filter for Audio Signal Processing.

[Link Github](#)



# 5th Project

Developed a command-line patient monitoring system in C to demonstrate file handling, role-based access control, and complex logical validation.

[Link Github](#)

```
=====
VITALS: Vital Information Tracking and Assessment Logic System
=====

Masukkan nama Anda: cia
Masukkan peran Anda (Admin/Dokter/Perawat): admin
=====

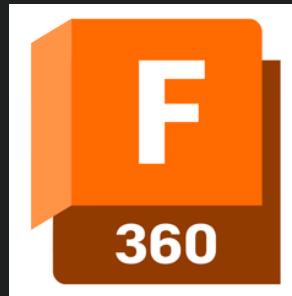
Menu (User: admin):
1. Tambah Pasien Baru
2. Tampilkan Data Pasien
2. Tampilkan Data Pasien
3. Hapus Data Pasien
2. Tampilkan Data Pasien
2. Tampilkan Data Pasien
3. Hapus Data Pasien
4. Perbarui Data Pasien
5. Simpan ke File
6. Expor ke CSV
7. Buat Database Baru
8. Cari Pasien
9. Simpan Laporan Satu Pasien
10. Lihat Status Pasien
0. Keluar
=====

Pilihan Anda: 10
Masukkan ID Pasien yang ingin diperiksa statusnya: 1
--- Status untuk Pasien ID 1 ---
Status Kesehatan Pasien Cici (ID: 1): Sehat
Diagram Risiko (0-6):
[ *----- ]
Rekomendasi Gaya Hidup:
- Pertahankan pola hidup sehat.
=====

=====
Pilihan Anda: 0
Apakah Anda ingin:
1. Ganti Nama dan Role
2. Keluar Program
Pilihan Anda: 1
Masukkan nama Anda: cia
Masukkan peran Anda (Admin/Dokter/Perawat): perawat
=====

Menu (User: perawat):
2. Tampilkan Data Pasien
8. Cari Pasien
9. Simpan Laporan Satu Pasien
10. Lihat Status Pasien
0. Keluar
=====

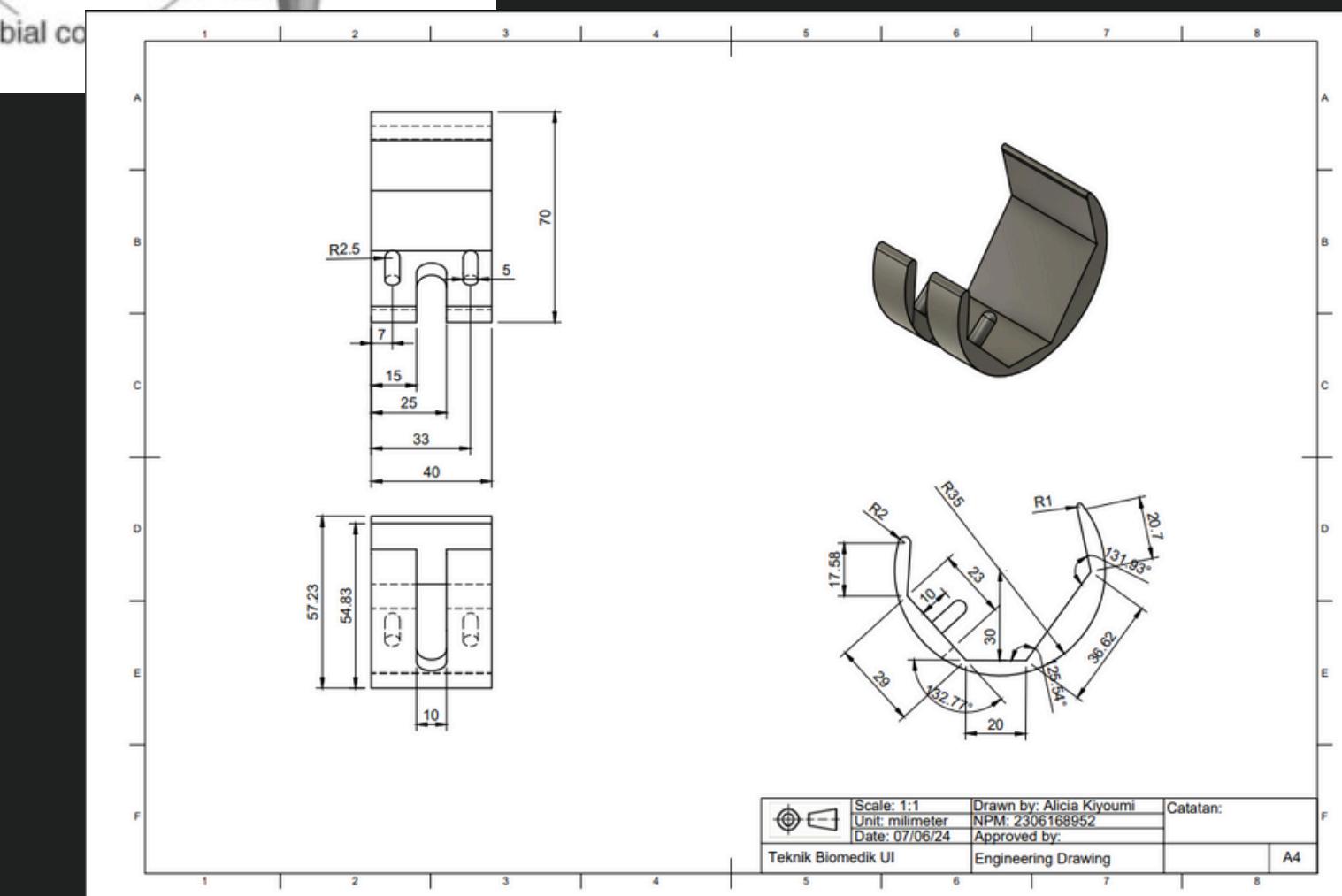
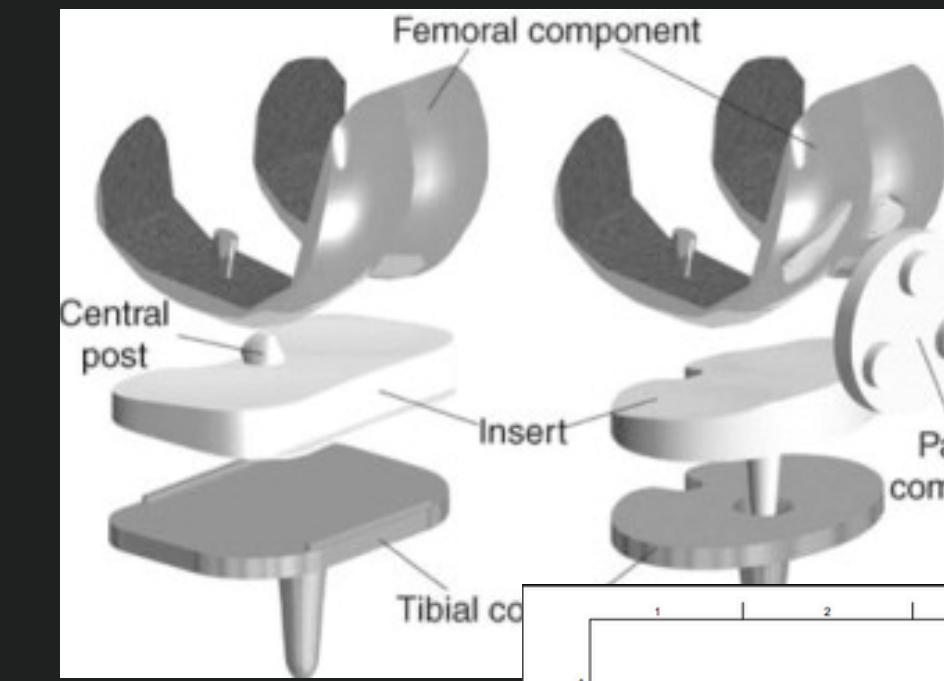
Pilihan Anda: 10
Masukkan ID Pasien yang ingin diperiksa statusnya: 1
--- Status untuk Pasien ID 1 ---
Status Kesehatan Pasien Cici (ID: 1): Sehat
Diagram Risiko (0-6):
[ *----- ]
Rekomendasi Gaya Hidup:
- Pertahankan pola hidup sehat.
=====
```

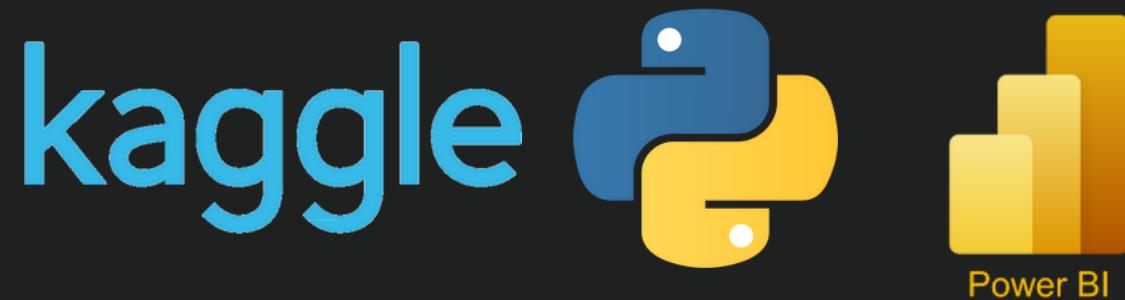


# 6th Project

Designed a 3D sketch of a femoral component of a knee prosthesis using Autodesk Fusion 360, focusing on anatomical accuracy and structural integrity

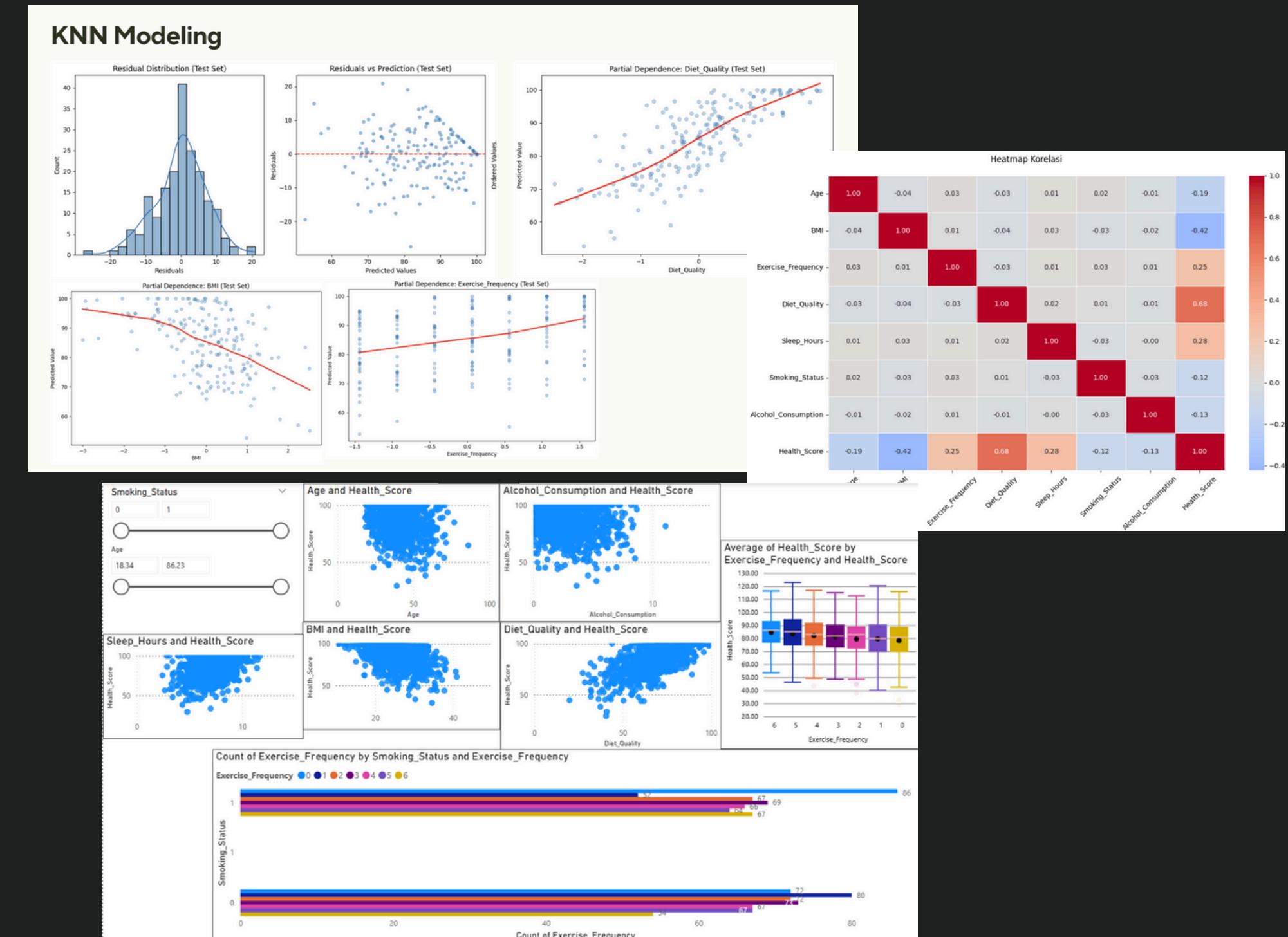
**Link Drive**





# 7th Project

Applied machine learning on a Kaggle health dataset focusing on feature selection & predictive modeling using Python, and created a Power BI dashboard to visualize key health indicators and model insights.

[Link Drive](#)

# Thank You

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"Strive not to be a success, but rather to be of value."

— Albert Einstein



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<https://github.com/aliciakyoumi>



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