



# PORTOFOLIO





<u>github</u>



Smart Kos

github



Photo to Painting

github



Batman simulator

github





PersonaProfiler

github



**University Room Booking** 

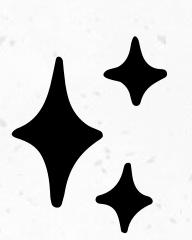
github





# INSIGHTHUB: ECOMMERCE DATA ANALYSIS

InsightHub is an interactive dashboard designed to help e-commerce businesses analyze customer data, sales trends, and payment patterns. The project enables businesses to make data-driven decisions through informative visualizations.







#### PYTHON & STREAMLIT

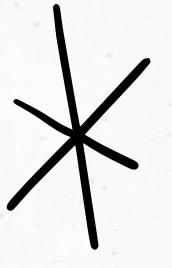
Processed and analyzed datasets from ecommerce platforms, , creating insightful dashboards.

#### LOOKER STUDIO

Designed engaging dashboards and reports to deliver actionable insights.

#### ALTAIR, PLOTLY, MATPLOTLIB

Visualized data to provide clear and actionable insights.









#### IMPACT

InsightHub empowers businesses with actionable insights by uncovering patterns in customer behavior, payment preferences, and sales performance. This tool enhances decision-making processes, driving improved marketing strategies and operational efficiency in e-commerce.

#### LEARNING OUTCOMES

I honed my skills in data processing and visualization by utilizing Python and libraries like Altair, Plotly, and Matplotlib. Building the dashboard in Streamlit also enhanced my ability to create interactive and user-friendly applications tailored to solving real-world business problems.

Streamlit

Filter Data berdasarkan Tanggal

2018/01/01

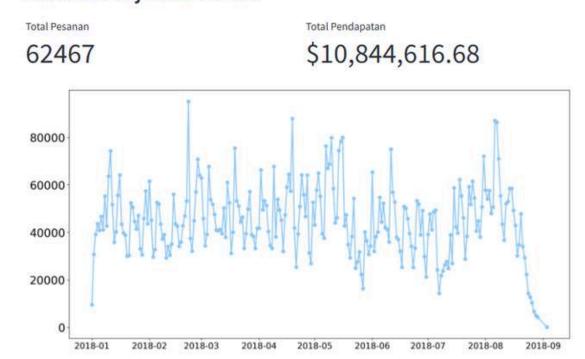
Start Date

End Date

2018/10/31

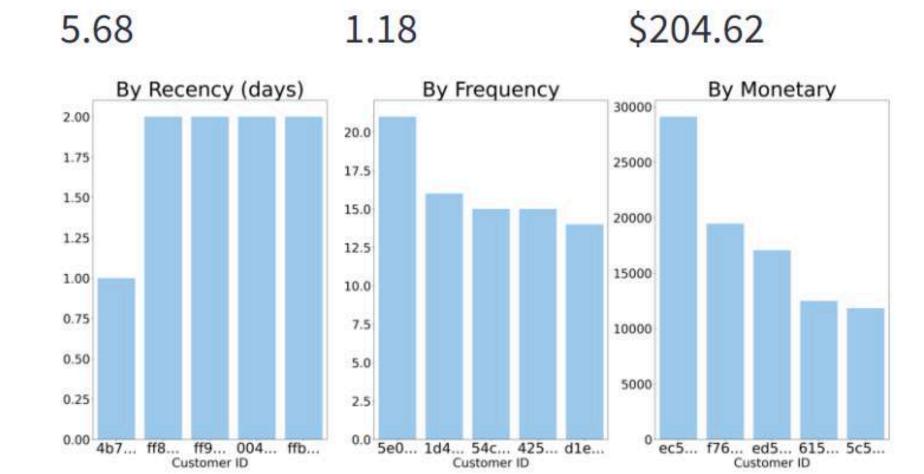
#### commerce

#### Analisis Penjualan Harian



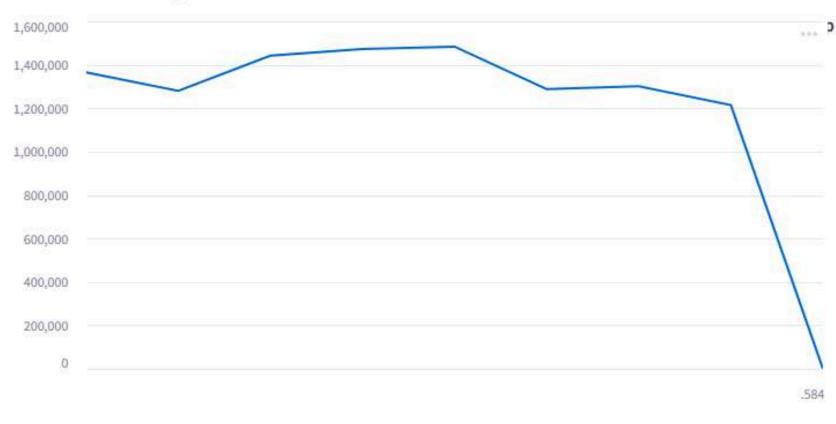
#### Pelanggan Terbaik Berdasarkan Parameter RFM

Average Frequency



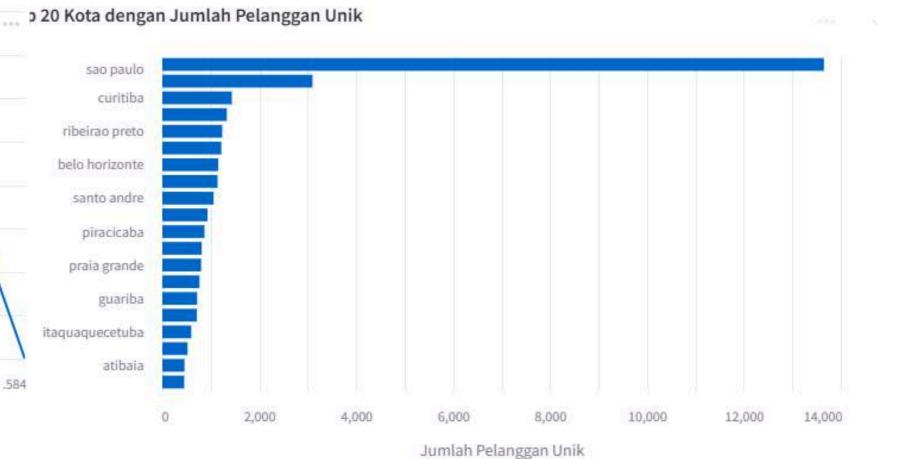
Average Monetary

#### Analisis Penjualan Bulanan



#### nalisis Lokasi Penjual

Average Recency (month)

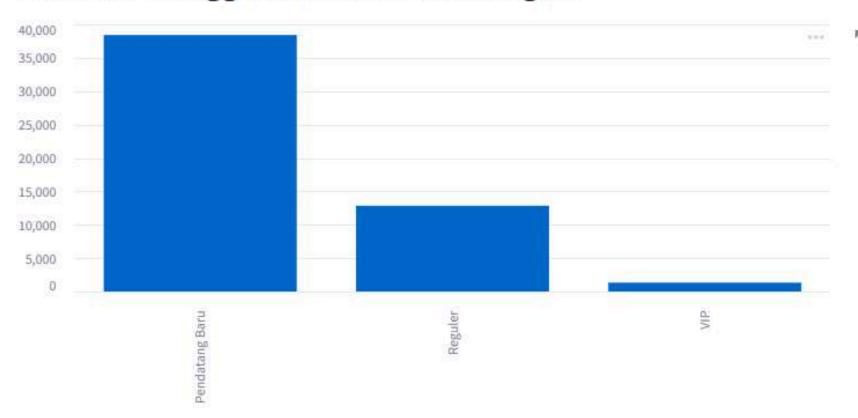


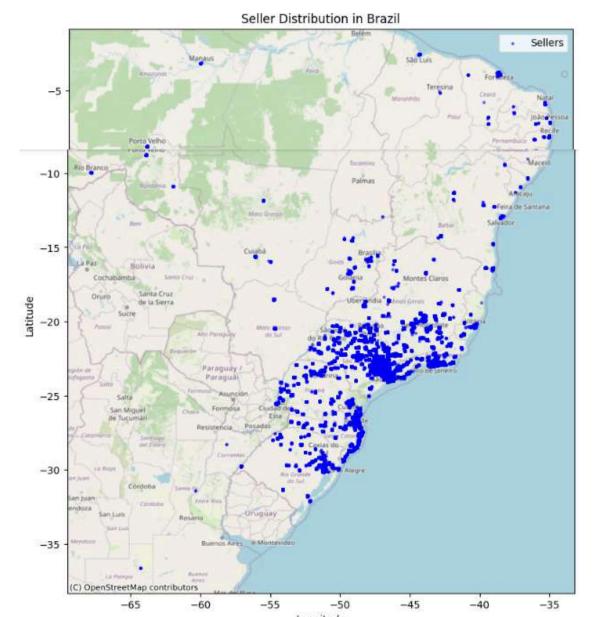


#### Kategori Produk dengan Penjualan Tertinggi di Setiap Negara Bagian

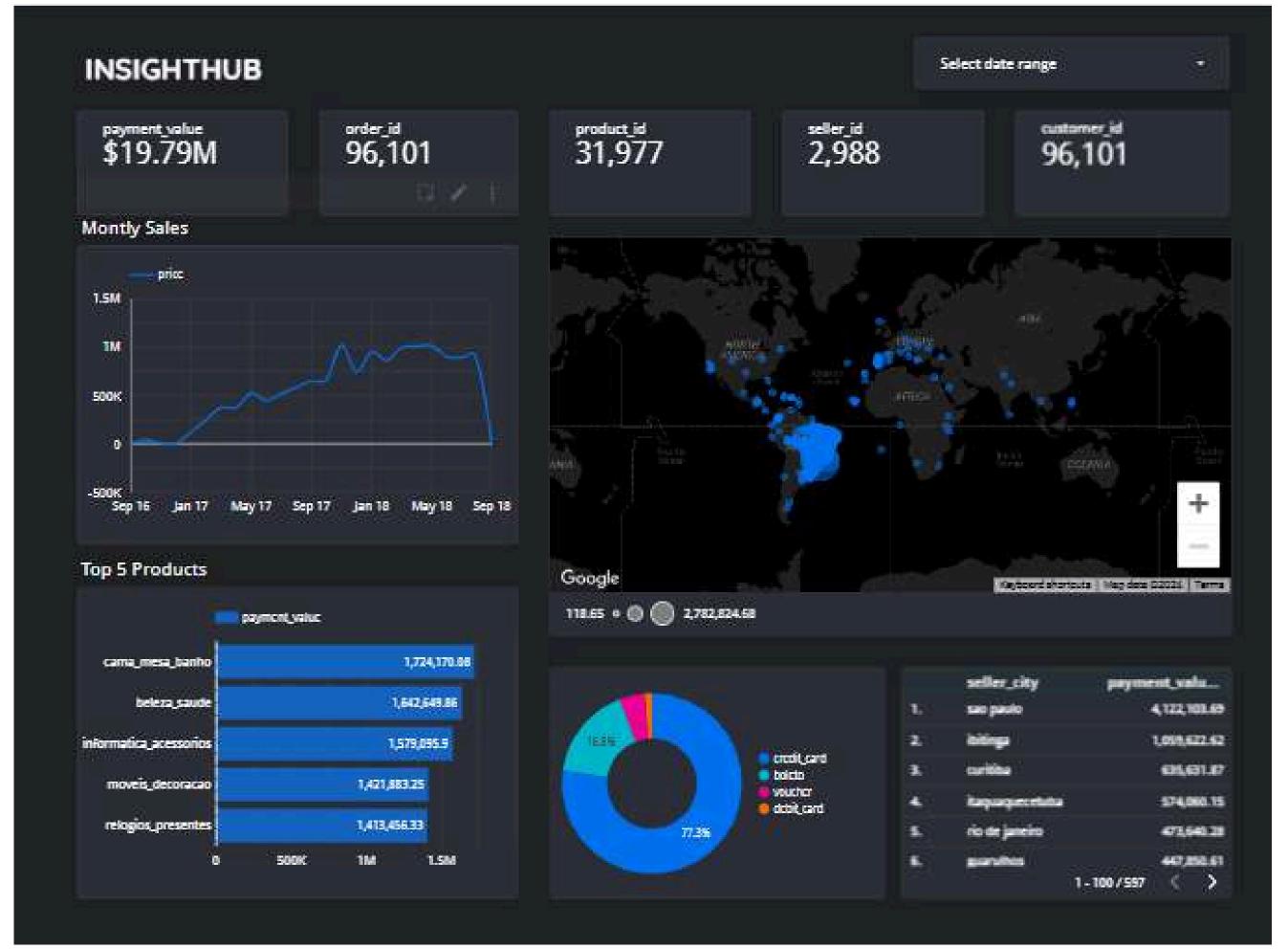


#### Jumlah Pelanggan Berdasarkan Kategori





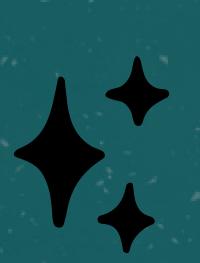
#### **Looker Studio**



# CANVAX: PHOTO TO PAINTING

Canvax is a web-based application that uses AI technology to transform ordinary photos into paintings in the styles of famous artists like Monet, Van Gogh, and Cézanne. The app combines art and technology, offering users a unique digital art experience.





# TECHNOLOGY



#### TORCH CYCLEGAN

Implemented for style transfer to generate paintings in various artistic styles.

#### NESTIS

Backend to handle image processing and manage API endpoints.

#### HTML, CSS, JAVASCRIPT

Designed and developed the frontend for an intuitive user interface.





#### IMPACT

Canvax bridges the gap between technology and creativity by enabling users to easily create personalized artwork, boosting interest in AI-driven solutions for the arts. It demonstrates how AI can enhance digital creativity, opening up opportunities in industries like graphic design, custom art, and digital media.

#### LEARNING OUTCOMES

I gained proficiency in using Torch CycleGAN for artistic style transfer and strengthened my expertise in full-stack development with NestJS and frontend technologies.

Additionally, I learned how to effectively integrate AI workflows with a user-friendly web interface to deliver impactful solutions.



## Welcome to CanvaX: Transform Your Images into Timeless Painting

CanvaX is a unique and innovative platform designed to transform your images into stunning digital paintings, breathing new artistic life into your creations. Whether you're a designer, artist, or simply someone who appreciates the beauty of art, our website provides an effortless way to merge your digital creativity with the charm of traditional painting styles.

Digital painting is a modern art form that simulates traditional painting techniques using digital tools, creating vibrant and intricate artworks that reflect the depth and texture of hand-painted pieces. With CanvaX, you can easily turn your photos into beautiful, painting-like masterpieces that capture the essence of classic art styles.





#### HOMEPAGE

### SIGN IN / SIGN OUT

0	CanvaX
withte	

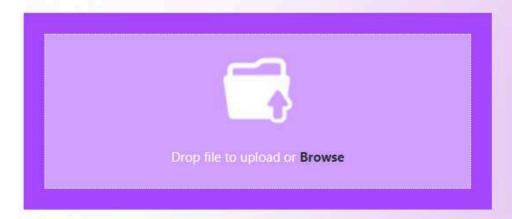
Welcome Back

Email address
Password

Sign In



#### **Upload Your Image**





#### **Seamless Transformation**

Our advanced algorithm transforms your images into intricate batik patterns, preserving the unique essence of both traditional and modern designs.



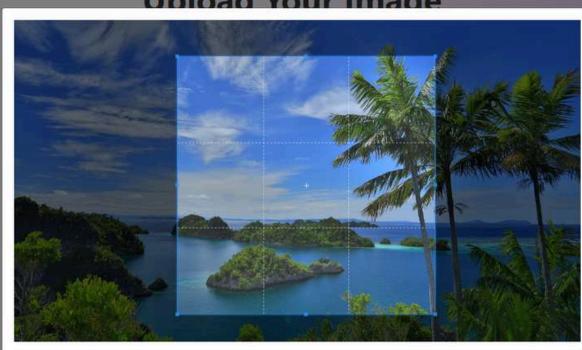
#### **Fast and Easy**

No need for complex software. Simply upload your image, and our tool will generate a batik pattern in seconds, ready for download.

Ou wate

#### UPLOAD PAGE

#### CROP TO TRANSFORM





#### **Seamless Trans**

Our advanced algorithm trans intricate batik patterns, preserving both traditional and m



Cancel

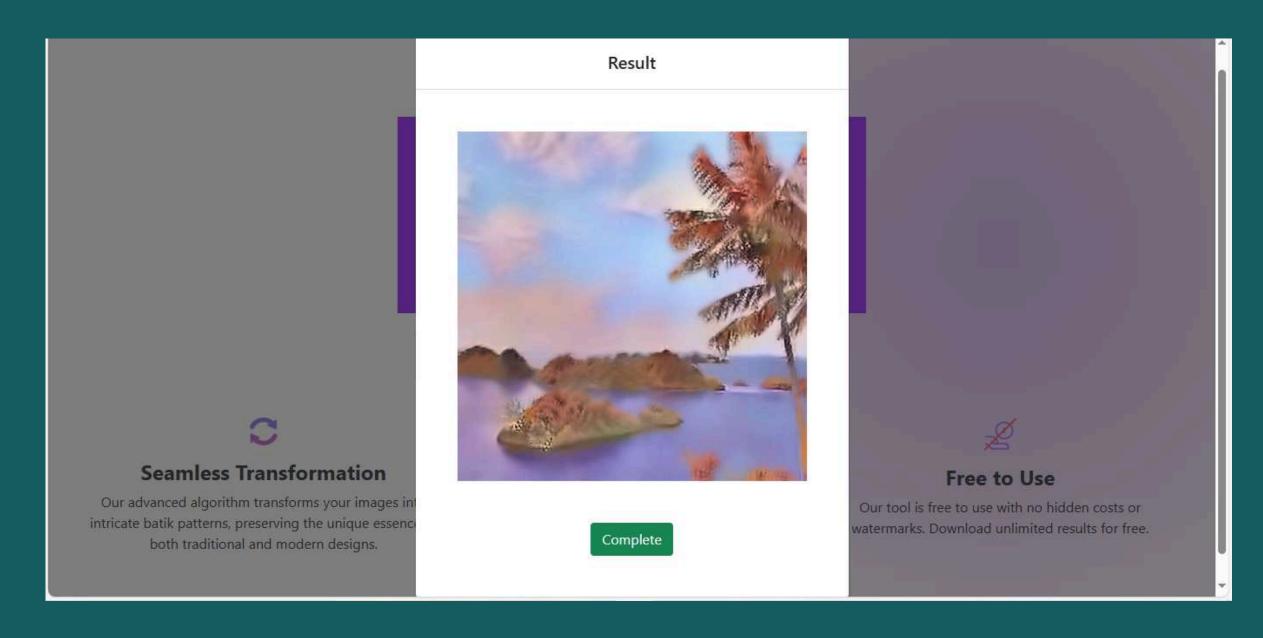
Transform



to Use

e with no hidden costs or d unlimited results for free.

## MONET RESULT



Digital platform to efficiently manage student housing (kos). The system was designed to assist kos owners in managing resident data, payments, and facilities. Key features I worked on include user management, payment processing, and data reporting.

SMARTKOS Management System

The system is expected to enhance kos management efficiency, reduce administrative errors, and provide accurate and timely information to kos owners.

#### **TECHNOLOGY**

PHP: Backend system to manage user operations, payment processing, and facility management.

MySQL: Database schema to handle resident, payment, and facility data efficiently.

HTML, CSS, JavaScript, Bootstrap: Developed the frontend using Bootstrap to create a responsive and user-friendly interface for administrative tasks.

### learning outcomes

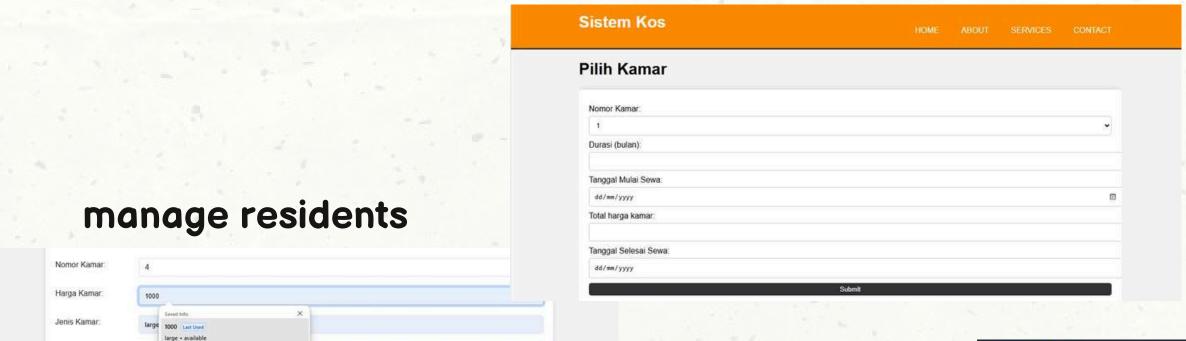
Daftar Kamar

1000000 00

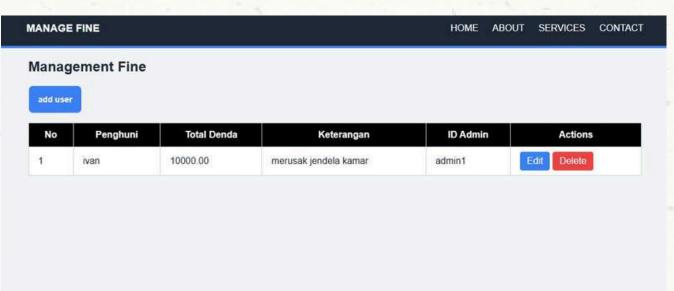
1000000.00

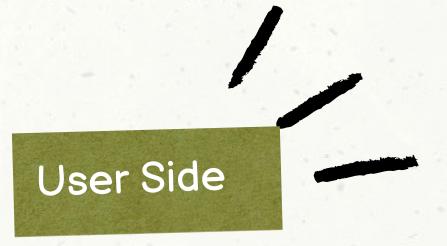
- Gained practical experience in web-based software development and database management.
- Improved skills in designing intuitive user interfaces
- Developed problem-solving through testing and debugging
   pick booking room



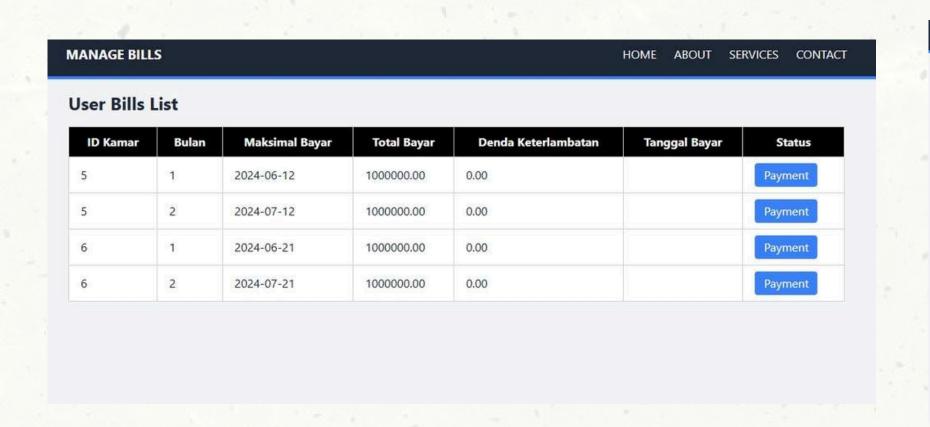


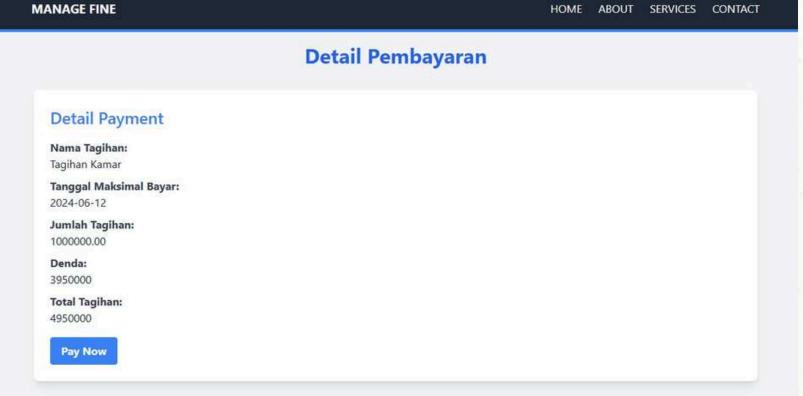
#### manage fines





#### images Manage Bills





# BATMAN-SIMULATOR

3D simulator using Three.js, allowing users to explore a virtual Gotham City with dynamic cityscape interactions. The project included features enabling users to assume the role of Batman. My primary focus was on designing and implementing the camera control logic and the core concepts of the simulation, ensuring an immersive and interactive user experience.



Batman gotham simulator-<u>YouTube</u>

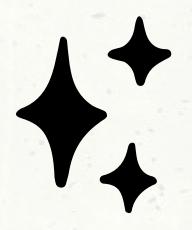


#### LEARNING OUTCOMES

I gained practical experience in camera systems, lighting techniques, collision detection, and cinematography. I mastered various camera controls and applied lighting models to create realistic environments, enhancing gameplay and visual appeal.

#### IMPACT

The Gotham Batman Simulator enhances user engagement with its advanced camera controls, dynamic lighting, and realistic collision detection, creating an immersive Gotham City experience. It sets a new standard for interactive simulations with its sophisticated cinematographic features.







#### **JAVASCRIPT**

Programming language for building core game mechanics, handling user input, and controlling game logic.

#### CANNON.JS

For physics and collision detection to provide realistic interactions with the game environment.

#### THREE.JS

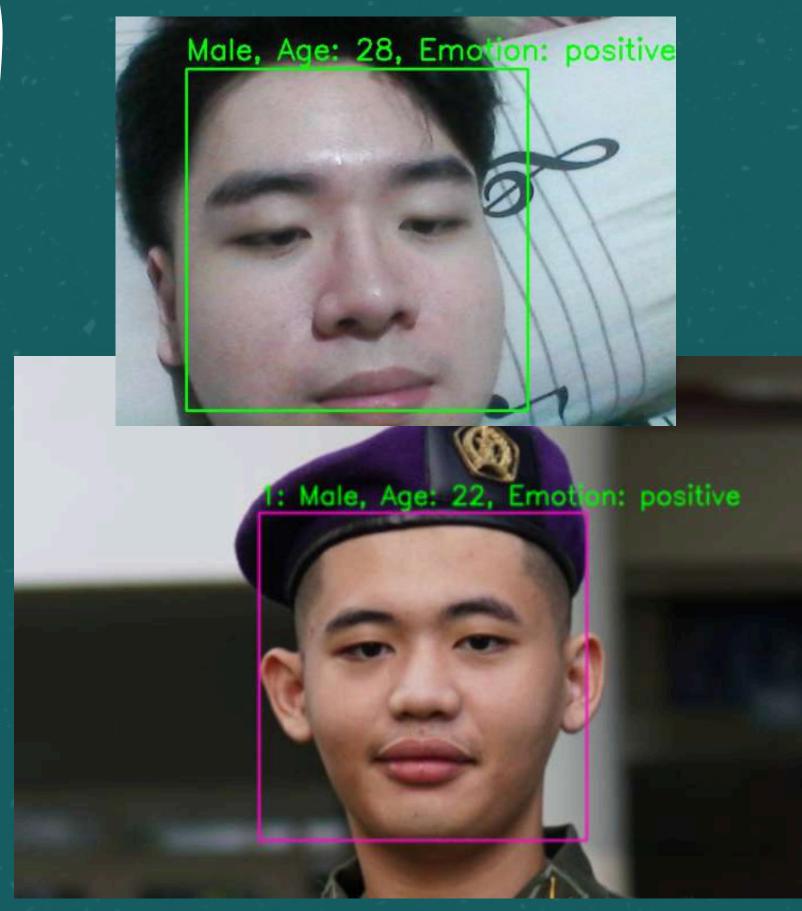
3D JavaScript library used to render and display the Gotham City environment, handle animations, and manage camera controls.

#### WEBGL

For rendering 3D graphics directly in the browser without requiring external plugins.

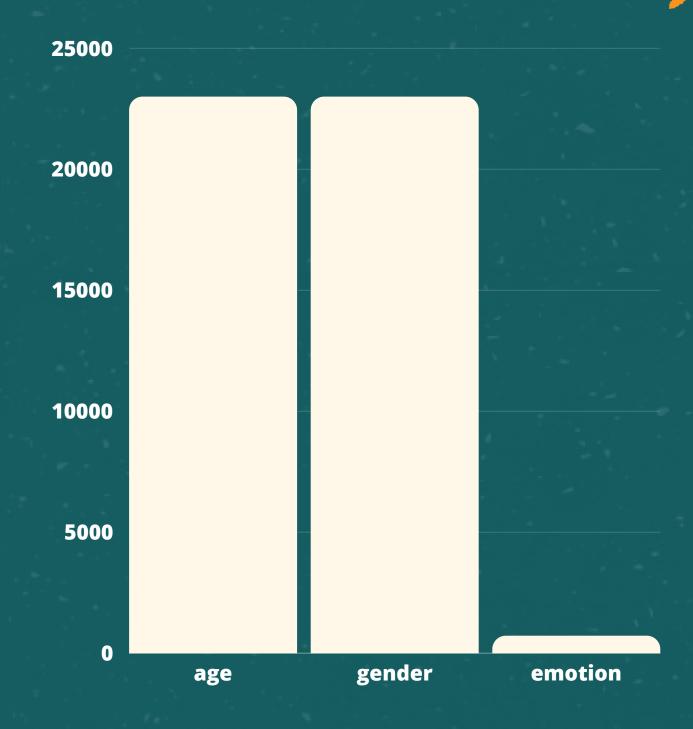
# PROJECT PROJECT PERSONAPROFILER

an AI-powered system using Convolutional Neural Networks (CNN) and TensorFlow dan Python to accurately detect age, gender, and emotion from facial images. This system was aimed at empowering businesses to optimize revenue by gaining valuable insights into customer demographics and sentiment.





UTKFace dataset consisting of 23,000 images, which provided a diverse range of faces with annotated age and gender labels. For emotion recognition, we employed the CK+48 dataset with 720 images, which included various facial expressions representing different emotional states.





# CECHNOLOGY.



#### **PYTHON**

Programming language for implementing the core AI system and data processing pipelines.

#### KERAS

High-level neural networks API (integrated with TensorFlow) used to build and fine-tune the model for optimal accuracy.

#### **TENSORFLOW**

Machine learning framework used to design and train a custom convolutional neural network (CNN) for image analysis and prediction.

#### **OPENCY**

Used for image preprocessing and feature extraction from input data.



#### IMPACT

The AI system provided businesses with actionable insights into customer demographics and emotions, enabling more targeted marketing strategies and improved customer engagement. This data-driven approach helps optimize revenue by aligning business strategies with customer profiles and sentiment.

#### LEARNING OUTCOMES

I gained expertise in managing large datasets, designing CNN architectures, optimizing model performance, and deploying machine learning solutions. I also learned how AI can provide valuable business insights into customer demographics and emotions.



# UNIVERSITY ROOM BOOKING

A comprehensive room booking system tailored for university use. This system provides an efficient platform for administrators to manage user accounts, room details, and reservations, while allowing users to easily book rooms and track their bookings

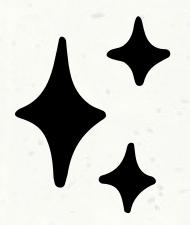


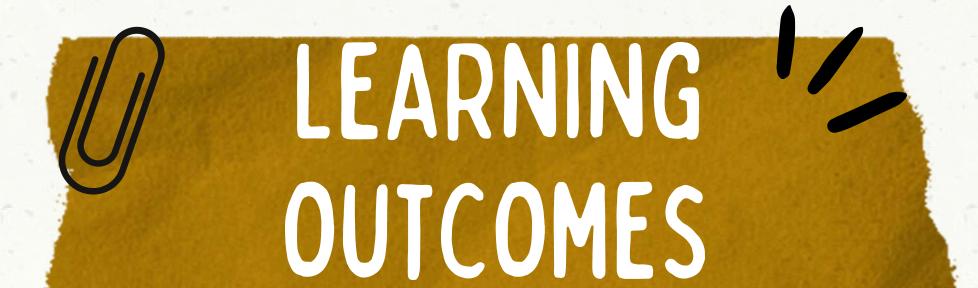
## TECHNOLOGY

The system was developed using PHP for server-side logic and MySQL for database management. The frontend was built with HTML and CSS for structure and styling, with Bootstrap ensuring a responsive design. JavaScript with jQuery was used for dynamic content updates and smoother interactions, while AJAX was employed to update content without page reloads. The system was tested and deployed using local server environments like XAMPP/WAMP.

#### IMPACT

The system significantly improves administrative efficiency by automating user and room management, and simplifies the booking process for users, leading to more organized room usage and reduced manual errors.







#### FULL-STACK DEVELOPMENT

Gained hands-on experience in designing both frontend and backend components, enhancing my skills in building comprehensive web applications.

#### USER INTERFACE DESIGN

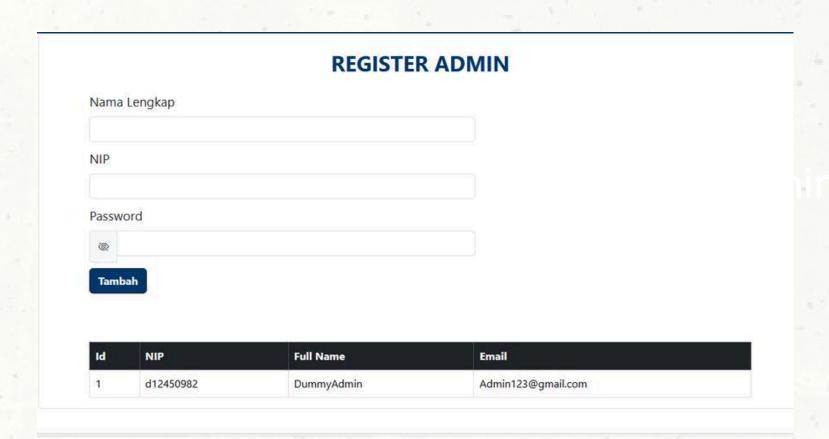
Improved my ability to create intuitive and user-friendly interfaces, ensuring a seamless experience for both admins and users.

#### DATABASE MANAGEMENT

Developed expertise in structuring and managing databases, crucial for handling user and room data efficiently.

#### PROBLEM-SOLVING

Strengthened my skills in troubleshooting and integrating different system components, ensuring a robust and functional application.



#### **BAN DATA USERS** KEMBALI PASSWORD NAMA **EMAIL** NRP STATUS\_BAN BAN ACTION c14220302@john.petra.ac.id 0 misaelyoih c14220302 Misael Yoih b12@john.petra.ac.id 0 b12 budi123 Budi Doremi 1@john.petra.ac.id 123 0 Dillan Engelbert Hendrarto 12@john.petra.ac.id 12 12 1 BAN USER

