

Artwork/Project Title

FILKOMreserV

Year Accomplished

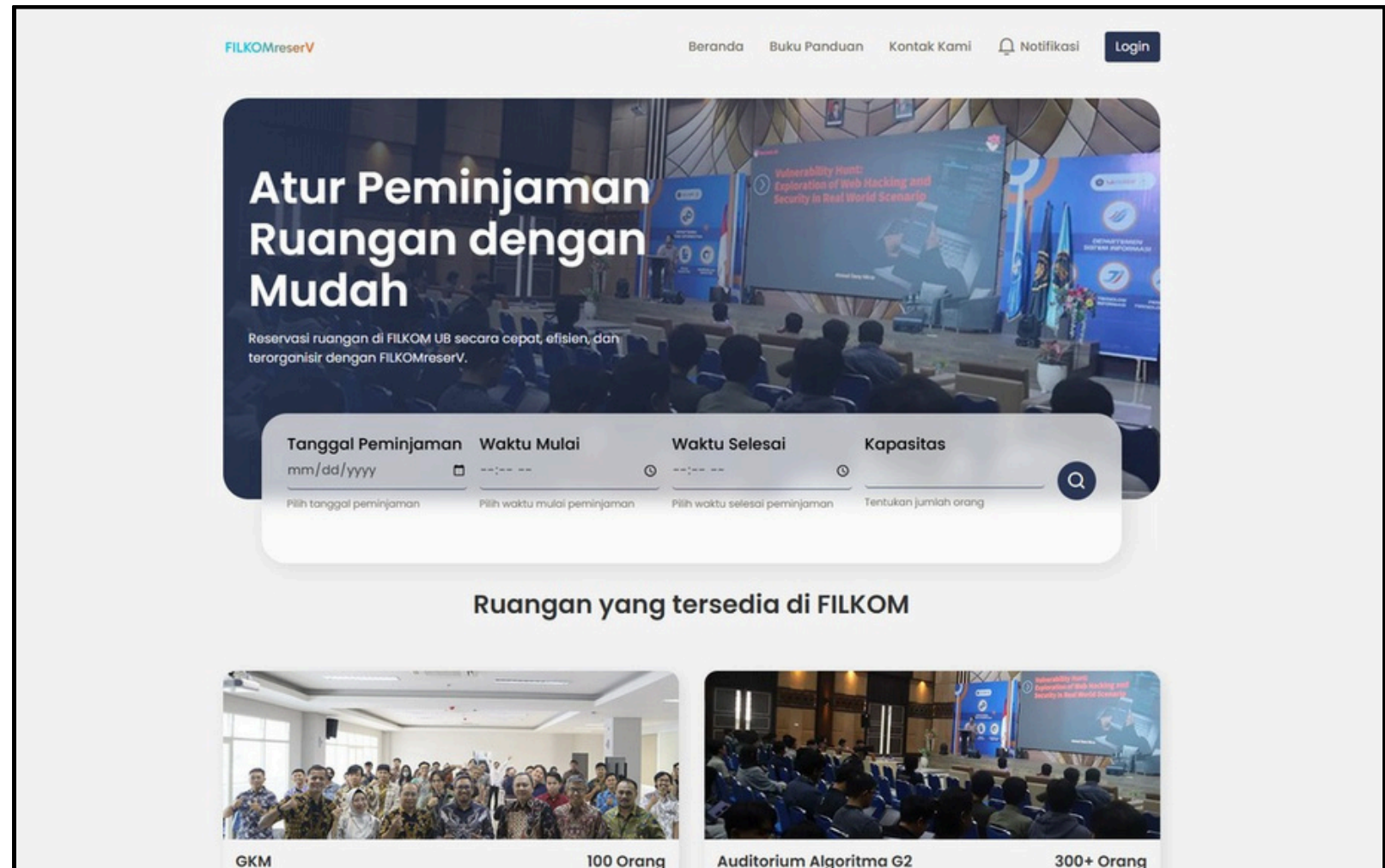
2024

Role/Position

Fullstack Developer

Publication Link<https://potong.in/FilkomReserV>**Artwork/Project Description**

a centralized web application collaboratively built with a small team of 4 to solve the previously manual, fragmented, and error-prone room reservation system at the Faculty of Computer Science. The platform integrates the entire workflow, from requests to approvals, by implementing a real-time availability calendar and an automated admin system. Built with HTML & CSS, Golang, and Supabase, our team's solution successfully eliminates the risk of double bookings, reduces administrative workload, and streamlines the reservation process for hundreds of users.

**Your name**

Arif Athaya Harahap

Your university/school name

(Student or Alumni)

Student of University Brawijaya

Your contact information

arifathayaharahap@gmail.com

Artwork/Project Title
FILOTI

Year Accomplished
2024

Role/Position
Fullstack Developer

Publication Link
<https://potong.in/FILOTI>

Artwork/Project Description

a centralized lost and found management system collaboratively built with a team to replace the faculty's manual, security-handled process and ineffective announcements via WhatsApp. The platform enables security staff to easily log found items with images, while allowing all faculty members to browse and search a structured database for their lost belongings. Built with React, Golang, and Supabase, our team's solution significantly improves item visibility and recovery rates, ensuring crucial announcements are no longer buried in irrelevant chat noise.

Project 2

The screenshot displays the 'Report Item' page of the FILOTI application. The header includes the FILOTI logo, the text 'Student Lost and Found Application', and navigation links for 'Lost Items', 'Found Items', 'History', 'Report Item', 'Notification', and a 'Logout' button. The main content area is titled '> Report Item' and contains a form with the following sections: 'Report Type' with a 'Select an Option' dropdown; 'What item?' with a text input field containing the example 'e.g., Brown leather wallet'; 'Item Description' with a large text area containing the placeholder 'Describe the item in detail...'; 'Location' with a 'Pilih Lokasi' dropdown; 'Photos (Optional)' with a dashed border area containing the text 'Click or drag & drop files here'; and a large orange 'Submit Report' button at the bottom.

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Artwork/Project Title

VIATRIX

Year Accomplished

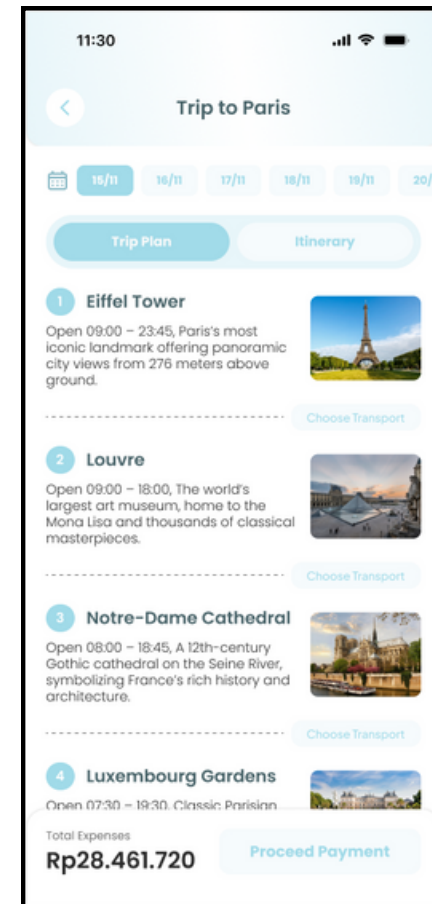
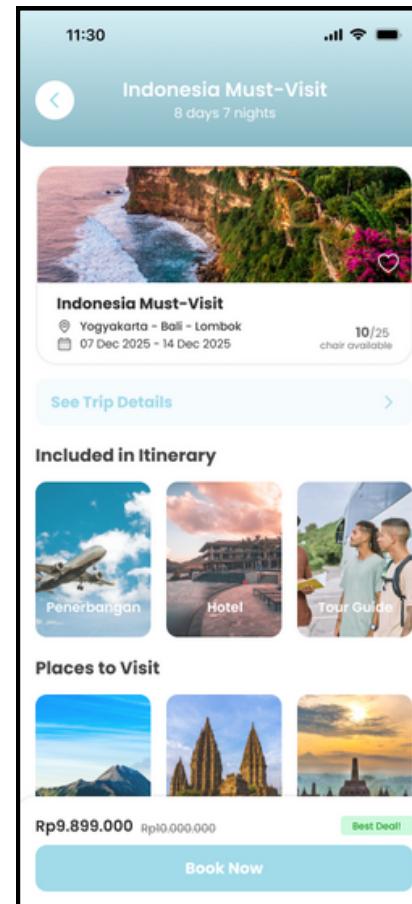
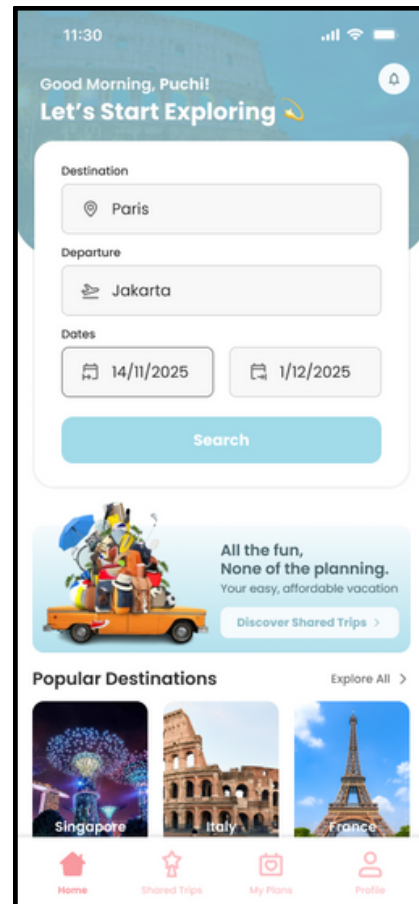
2025

Role/Position

Product Manager, UX Researcher,
and UI Designer

Publication Link<https://potong.in/ViatrixPrototype>**Artwork/Project Description**

an innovative AI-based smart travel application collaboratively designed by team EL KAPITANO (team of 2 people) to replace the complex, time-consuming, and fragmented process of manual trip planning. The platform directly addresses the significant time burden an average of 17 hours and 42 minutes per trip and high stress that 96.8% of travelers experience during planning. The platform enables users to automatically generate a complete, personalized itinerary with integrated booking for flights and hotels, simply by entering their destination, dates, and number of passengers. Furthermore, it allows travelers to utilize a "Shared Travel" feature to find and join existing trips, making travel more affordable and social by splitting costs for guides and transportation. Designed with Figma, FigJam, and Google Forms, our team's solution significantly reduces planning time and cognitive load, ensuring a smarter, more inclusive, and cost-effective travel experience.

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Artwork/Project Title

POTONGIN

Year Accomplished

2025

Role/Position

Product Manager & Backend
Developer

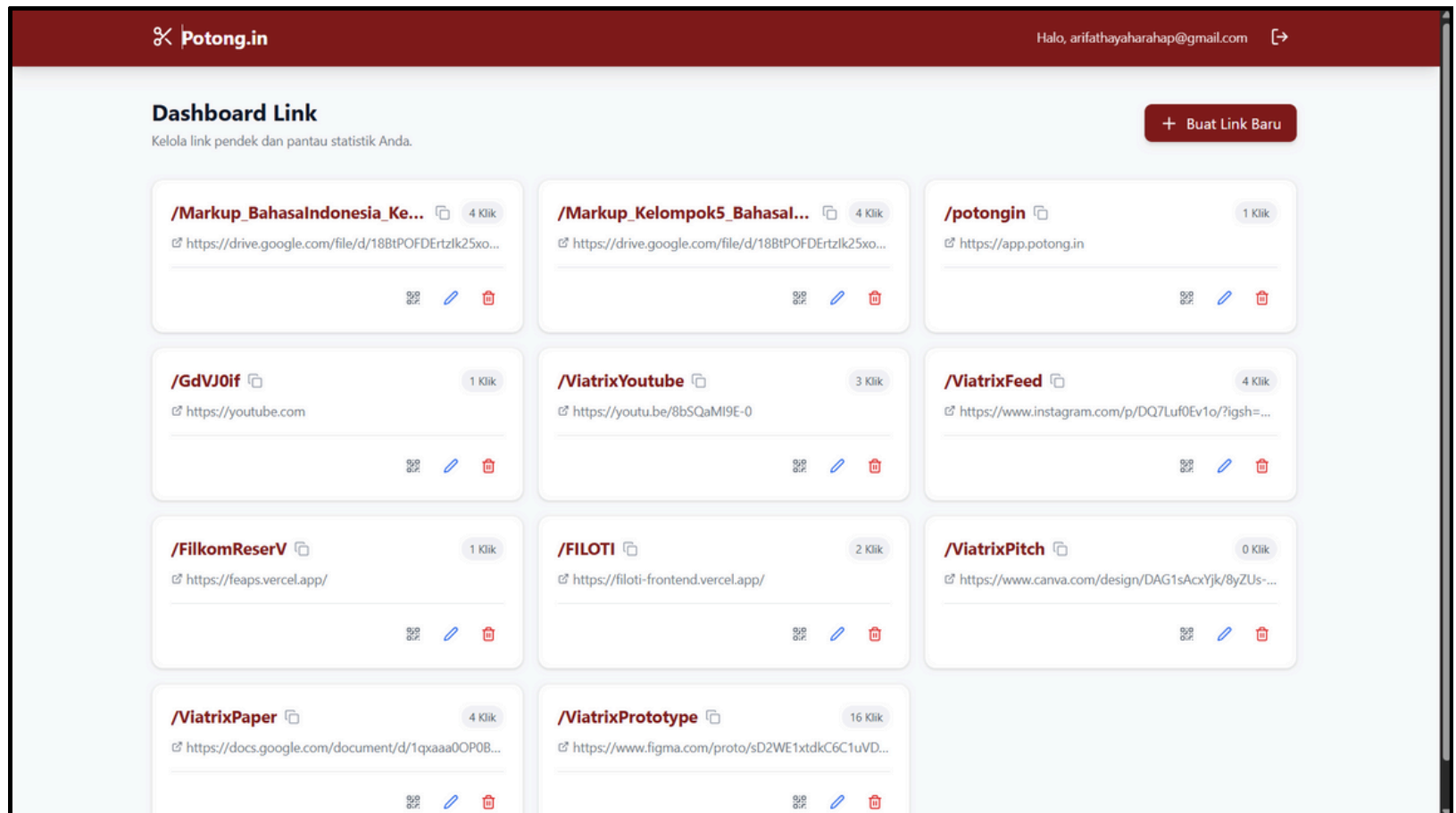
Publication Link

<https://app.potong.in/>

Artwork/Project Description

potong.in is a full-stack URL shortener web application developed in collaboration with a partner. We engineered the backend API using Golang (Gin framework) to create a fast and reliable service, while the user interface was built with React.js to provide a seamless and interactive user experience. The project is live and deployed on Vercel.

Project 4

**Name**

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Artwork/Project Title
Lawyer-Instruct-Translated-ID

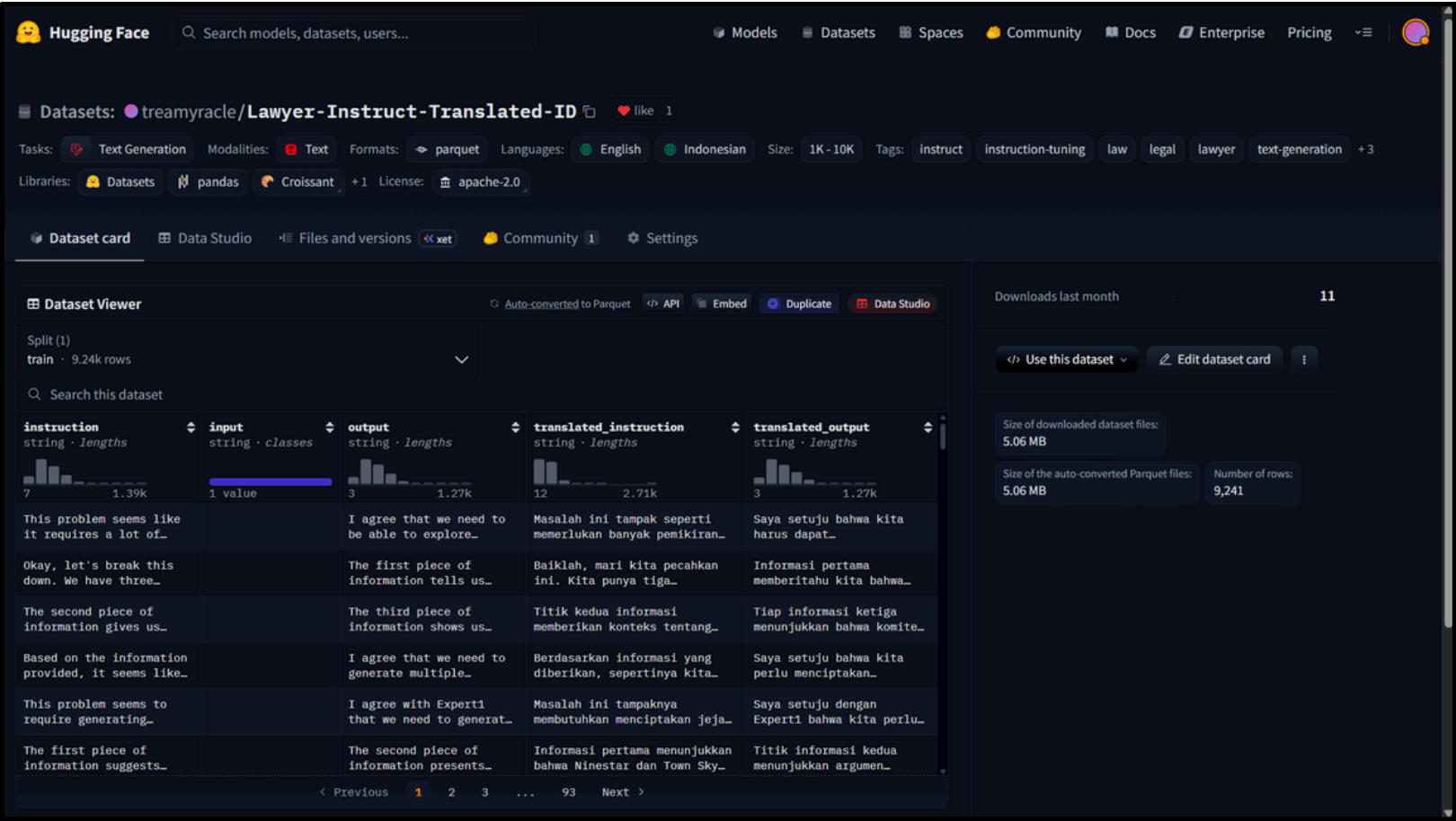
Year Accomplished
2025

Role/Position
AI Researcher & Data Engineer

Publication Link
<https://huggingface.co/datasets/treamyracle/Lawyer-Instruct-Translated-ID>

Artwork/Project Description
Lawyer-Instruct-Translated-ID is a specialized dataset designed for instruct-tuning Large Language Models (LLMs) within the legal domain. I implemented a neural machine translation pipeline to curate high-quality training data, specifically engineered to fine-tune base models. The resulting dataset enables models to adopt a professional legal persona, allowing them to generate responses with the tone, structure, and terminology characteristic of a lawyer.

Project 5



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Artwork/Project Title

Online Gambling Awareness Dataset

Year Accomplished
2025

Role/Position

AI Researcher & Data Engineer

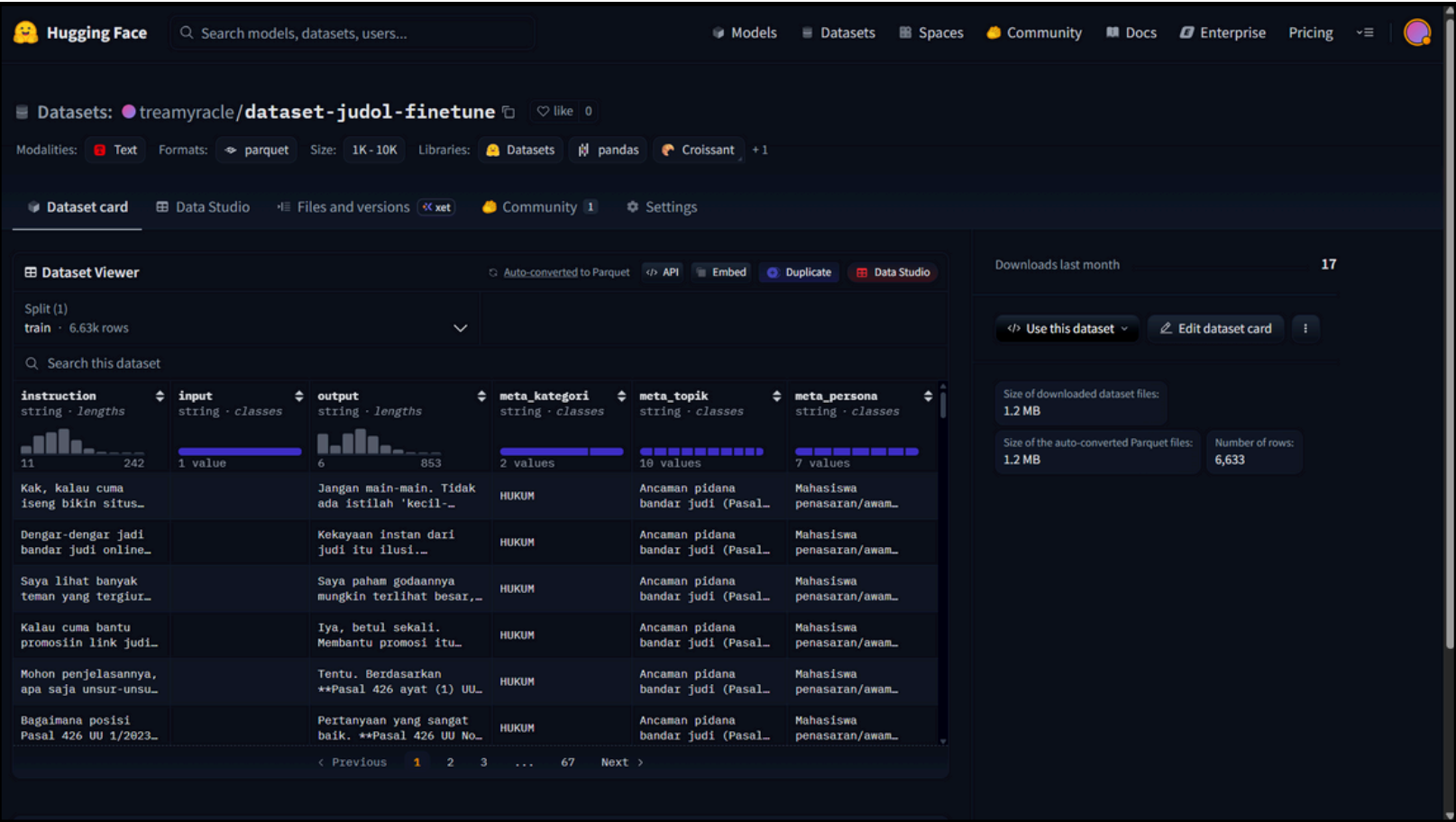
Publication Link

https://huggingface.co/datasets/treamyracle/JudiOnline-Instruct-ID

Artwork/Project Description

dataset-judol-finetune is a synthetic dataset generated using LLM API, leveraged with Google Search grounding tools to ensure high factual accuracy. The dataset focuses on the Indonesian online gambling landscape, covering general information, local slang definitions, and safety alignment (refusal mechanisms for gambling tips). When used to fine-tune the Qwen 2.5 7B model, this data achieved significantly higher domain-specific accuracy compared to the standard base instruct model.

Project 6



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Artwork/Project Title
Multi-Agent Itinerary Planner

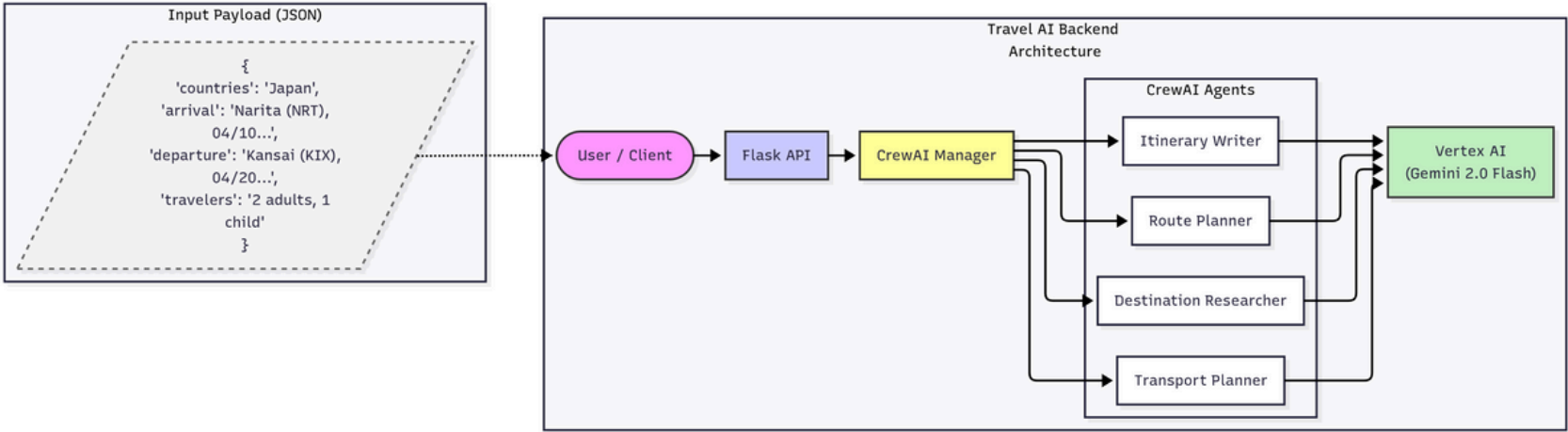
Year Accomplished
2025

Role/Position
AI Engineer & Backend Developer

Publication Link
https://github.com/Treamyracle/GSC2025_SPS

Artwork/Project Description
A sophisticated backend API built with Flask and CrewAI that orchestrates an autonomous multi-agent system for travel planning. Leveraging Google Vertex AI (Gemini 2.0 Flash), the system coordinates specialized agents including Route Planners, Transport Researchers, and Itinerary Writers to autonomously generate comprehensive, structured travel itineraries from raw user inputs. The infrastructure is containerized and deployed on Google Cloud Run (no longer deployed as it ran out of free credits) for serverless scalability.

Project 7



Name
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Artwork/Project Title*Drowsiness Detection Model***Year Accomplished**

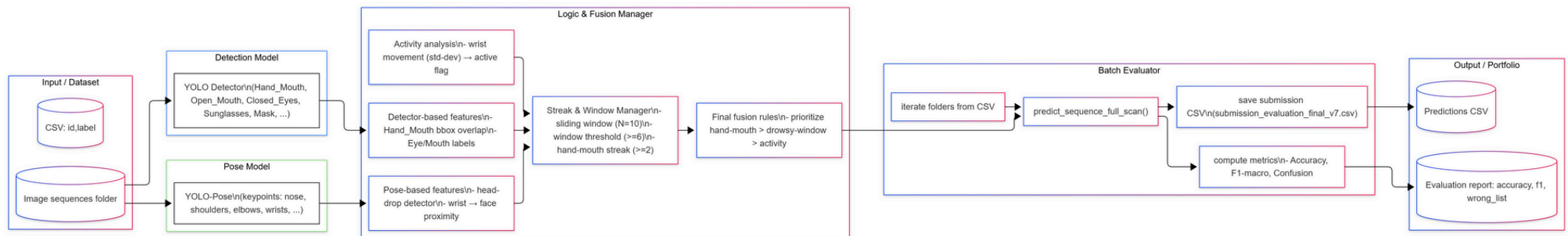
2025

Role/Position*AI Engineer & Data Engineer***Artwork/Project Description**

I designed and implemented a computer-vision-based drowsiness detection pipeline that integrates a YOLO object detector with YOLO-Pose for keypoint extraction. The system includes dataset labeling, video sequence preprocessing, and a CSV-based evaluation format (id, label) for batch testing. I developed a multi-source fusion logic combining detector outputs, pose features, and activity analysis with a strict prioritization strategy. Hand-mouth confirmation uses both the Hand_Mouth bounding box and a minimum two-frame pose streak to significantly reduce false positives. Head-drop detection is derived from changes in nose-shoulder positioning, while activity analysis leverages wrist-movement standard deviation to filter out high-motion frames. A sliding window mechanism ($N=10$, threshold ≥ 6) ensures that only persistent drowsy events are classified.

Publication Link

<https://huggingface.co/spaces/tre-amyracle/drowsiness-detector>

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