

MY PORTFOLIO

<https://dindatasi.github.io>

COURSEWORK PROJECTS (MSc Business Analytics at UCL)

Airbnb Superhost Evaluation

[Check the slides here](#) and [the Tableau Dashboard here](#)

As part of Business Strategy & Analytics Individual Coursework, I analyzed the consistency of ratings received by hosts who have more than one listing, and then evaluated whether the *Superhost* criteria should be changed. For this analysis I used Python, Jupyter Notebook, SQL, and Tableau.

Mosey

mosey.herokuapp.com

This is part of Business Strategy & Analytics Group Coursework. Mosey is a navigation app that provides choice for safest route instead of only the fastest route. We took crime data from data.police.uk and develop an algorithm to recommend the safest route for walking. The gamification and place of interests suggestions offered also encourage people to walk more instead of using other modes of transportation. Aside from the product roadmap formulation, my main responsibility was to develop the initial routing algorithm, integrate with GoogleMaps and Instagram API to get the list of place of interests, as well as to develop the landing page for the app.

Amazon Fake Review Detection

https://github.com/dindatasi/MSING055_Amazon_Review

<https://github.com/Maytudboon/MSING055>

This is my group's final project for Programming for Business Analytics module. The idea was to use network analysis and clustering technique for anomaly detection. We scraped product review data from amazon by following snowball method. Then we constructed and compared the network, with *profile id* as the node, which will be connected to each other if two *profile ids* have reviewed more than two products in common. We found huge discrepancy in which the network for the suspected fake review group was very crowded. Then we extracted the list of suspects and matched it with the reviews clusters. The clusters were created using simple K-means with 5 clusters. We found two clusters contained >77% of reviews from our the fake reviewer suspect. The tools I used in this project are Python, Jupyter Notebook, Weka, and SQL.

DATA PROJECTS

3D Ring Visualization (2017)

Project & Product Manager

An interactive visualization of Midtrans transactions ring in 3D World, this desktop app enables user to explore the 3D world by using Leapmotion. The app read the transaction data in JSON file, and then generates the network graph/ring that consist of nodes. A node can represent buyer's email, phone number, or card number. By looking at the visualization, user can point out fraudsters easily.

Mycroft - Merchant Evaluation Portal (2017)

Scrum Master

A portal to help with merchant onboarding decisions by automatically crawling and evaluating their website and social media accounts using LSA & sentiment analysis, and then provide recommendation whether to approve or reject the merchant.

Machine Learning for Aegis Fraud Detection System (2016-2017) <http://midtrans.com/aegis> *Scrum Master*

Aegis is one of the most sophisticated fraud detection system in Indonesia. It combines pre-determined rules created by human with a machine learning model that can catch fraudulent transactions. The model provides transaction score and signal (reasons behind the score) which was implemented into Fraud Detection System, with ~75% accuracy and <40ms average response time despite handling large transaction volume.

Targeted Promo Analytics (2017)

Product Owner

This is a hackathon project, in which I worked in a team of five. This web app enables e-commerce and banks to effectively target specific customer segments for promotion, and design a promo that will best suit them based on the predictive model. User can submit the promo specifications, and then get estimated market size and the likelihood of using the promo for each of their customers. The app became the first hackathon product to be marketed by Midtrans.

Solutions Dashboard (2017)

Scrum Master

The project started as an initiative to encourage data-driven decision-making within the company. We developed a dashboard using Tableau to provide insights based on sales and marketing stats. By using this dashboard, sales team's leaders can also easily track individual and team's performance according to their KPIs. My main role here was to manage stakeholders' expectations and balance the team's work as they also need to work on other priorities.

Anomaly Detection for The Biggest Private Bank in Indonesia (2016)

Project Manager

A proof of concept to analyze internet banking transactions data and discover the anomalies. Using big data tools & technique, we successfully identified suspicious and anomalous customers. We presented the result to senior managements of the IT Division of the Bank, and they decided to extend the proof of concept into full project.

WEB & MOBILE APP PROJECTS

Promo Engine (2017) <https://api-docs.midtrans.com/#credit-card-promo-beta->

Scrum Master

Promo Engine API serve as additional services to Midtrans Core API. It allows merchants to use certain promotions for credit card transactions to be offered to their users. We also provide dashboard to easily add and manage promotions.

Payment Landing Page Development for One of The Biggest Airlines Indonesia (2016)

Interim Project Manager

I covered as a project manager for two months to develop improvements to the payment landing page that process IDR billions of transactions daily. We were integrating more ticket retail channels owned by the airlines to our payment landing page. We worked with their other vendors as well, including their other web developers and the booking engine providers.

Docspace.id (2016) <http://docspace.id/>

Product Consultant

This is a collaboration between my tech consulting firm and two doctors. The idea is to create a "space" for doctors to get various job-related information, including vacancies and events. We were highly involved in the market research, product planning, and development process. The pitchdeck we created also help Docspace to win an award at a bootcamp.

Midtrans Mobile SDK (2016-2017) <https://mobile-docs.midtrans.com>

Scrum Master

SDK to let merchants implement Midtrans Payment Gateway seamlessly in their native iOS and Android app. This SDK carries all features offered by Midtrans Payment API, as well as giving merchants the choice to implement the drop-in UI kit (for quicker integration) or the core kit (API-only implementation, for more customization). During this time, I was also in charge to help several key merchants to get the most out of our Mobile SDK.

BBM Pay (2015-2016)

Scrum Master

A responsive web payment page for Blackberry Messenger. We worked directly with the Senior Manager of Blackberry Messenger to drive more sellers to use BBM Channel to sell their products, and then let their customers pay using the BBM Pay payment page. Aside from the payment page, we also provided the payment link generator and a portal to manage inventories & record transactions.

**SIEndo - Endowment Fund Information System &
SIMon - Commercial Unit Monitoring Information System (2015)**

System Analyst

Hired by BPUDL ITB to develop both SIEndo & SIMon. SIEndo give easy access for donors to find information related to ITB's endowment fund as well as their donations to ITB. Meanwhile, SIMon was planned to track progress and performance, such as financial KPIs achievements, of 14 commercial units under BPUDL ITB. The web portals was developed using laravel & PHP, and we worked directly with the Head & Secretary General of the organization to gather requirements.

e-SDLC (2014)

Software Developer

Developed a web-based IT project management application to submit project proposal & track the development progress. The app enable users to add/request new IT project, assign employees to projects according to their departments, and notify users about new project assignments. The purpose was to promote better visibility & transparency of project's progress, as well as to get rid of paper-based documentations. I developed it with two other interns at Bank Rakyat Indonesia, one of the biggest state-owned bank, and it became one of a few apps developed by intern that were being deployed to the central office.