

DATA SCIENTIST

BUSINESS INTELLIGENCE

EMILIO YANVRENT

UNDERGRADUATE

PORTOFOLIO

ABOUT ME

Emilio
Janurent

I am a 5th semester student of Universitas Multimedia Nusantara taking Information System for major, focusing on Big Data. I aim to become a Data Scientist, using my skills in data analysis, machine learning, and problem-solving. I work well in changing situations and adapt quickly to overcome challenges.

**DATA SCIENTIST | BUSINESS INTELLIGENCE
UNDERGRADUATE**



UNDERGRADUATE

PORTOFOLIO

EDUCATION

M U L T I M E D I A N U S A N T A R A U N I V E R S I T Y ,
T A N G E R A N G

I N F O R M A T I O N S Y S T E M , B I G D A T A

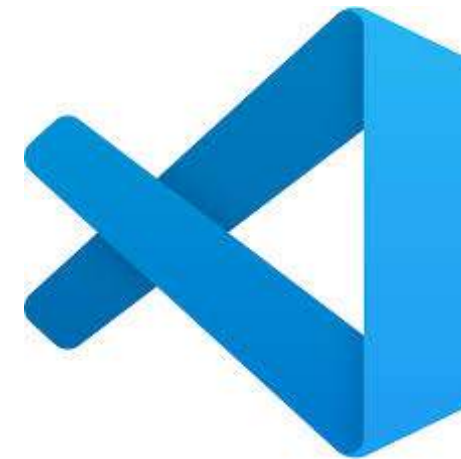
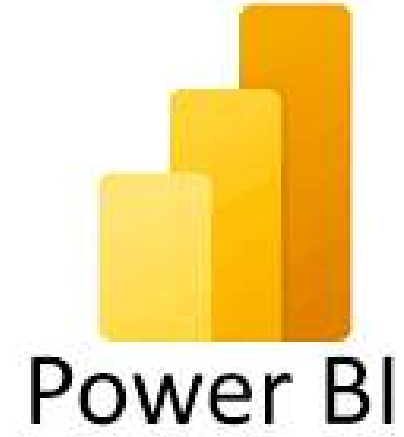
2 0 2 2 - P R E S E N T

S T E L L A M A R I S I N T E R N A T I O N A L S C H O O L ,
G A D I N G S E R P O N G

I N T E R N A T I O N A L B A C C A L A U R E A T E ,
I N T E R N A T I O N A L G E N E R A L C E R T I F I C A T E O F
S E C O N D A R Y E D U C A T I O N

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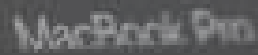
TOOLS USED



What have I been doing?



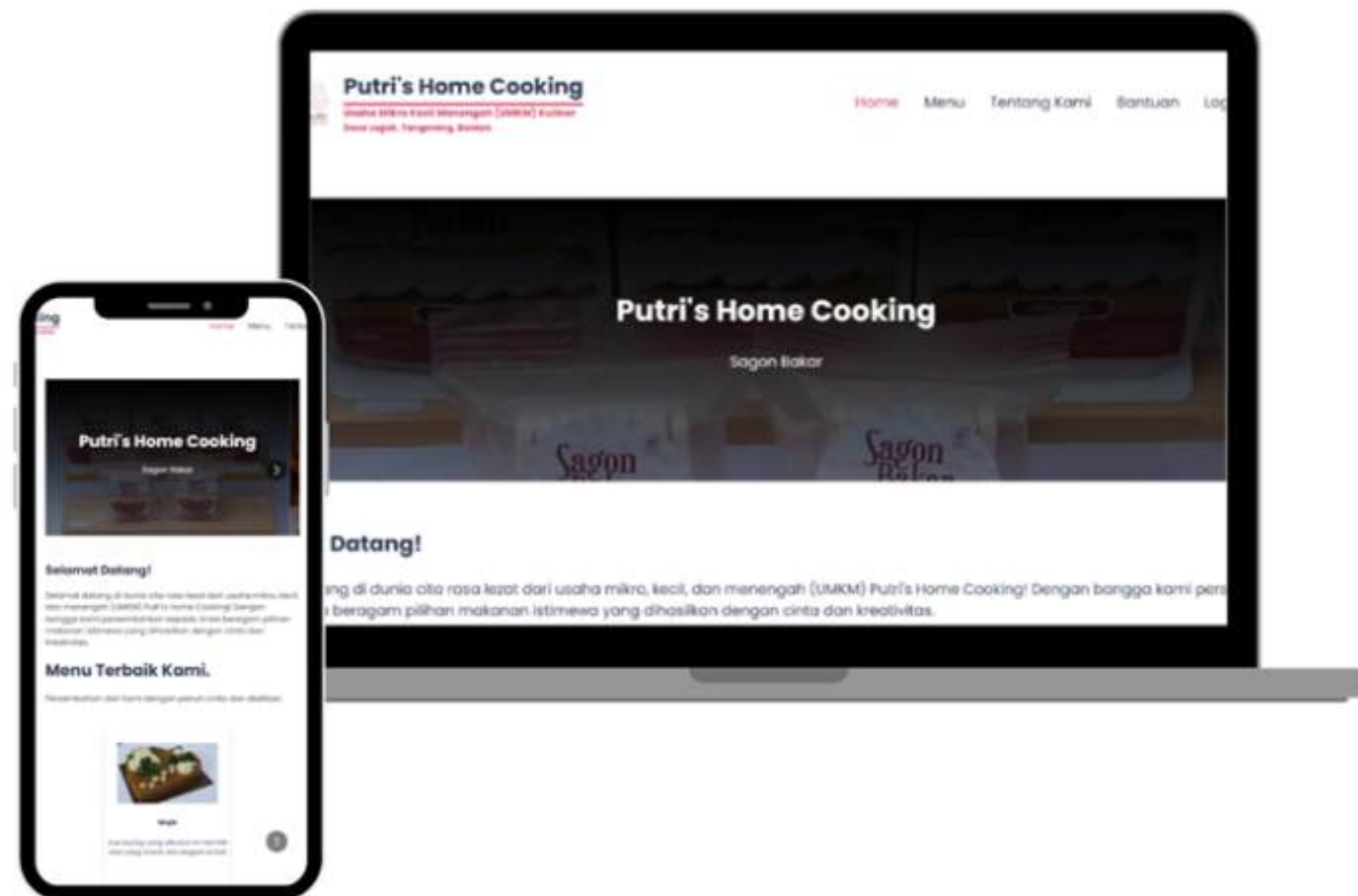
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Selamat Datang!

Selamat datang di dunia cita rasa lezat dari usaha mikro, kecil, dan menengah (UMKM) Putri's Home Cooking! Dengan bangga kami persembahkan kepada Anda beragam pilihan makanan istimewa yang dihasilkan dengan cinta dan kreativitas.



PKM UMKM KULINER BERBASIS TEKNOLOGI INFORMASI DAN WEBSITE E-COMMERCE PADA DESA LEGOK, TANGERANG, BANTEN

In this research, Lecturer team recruit students to help with their research, we helped a small business at Legok, Tangerang to improve their sales by making them website for sales. In this research my role is to create the front end and back end of the website. Where it consist of admin and user page, so then the sales will all be kept in the server. This research we used React.js

SOSIALISASI DAN PENDAMPINGAN SISTEM TRANSAKSI KEUANGAN PADA BANK SAMPAH PURI PAMULANG 25

In this research, Lecturer team recruit students to help with their research, we helped a waste bank in Pamulang to improve the data input and organise the data. In this research my role is to design the UI/UX of the application and website. This research uses React.js as the base for web making.



Laporan Transaksi	
cari nama atau jenis sa... Filter Export	
Kode Transaksi	SKBSI0001
Jenis Transaksi	Penjualan
Nama Nasabah	Adrian Finantyo
Jenis Sampah	PP Air Mineral Gelas Bersih
Jumlah Sampah	5 kg
Harga/kg	Rp 5.500
Jumlah	Rp 27.500
Kode Transaksi	SKBSW0001
Jenis Transaksi	Pencairan
Nama Nasabah	Nehemia Guelidi
Jumlah	Rp 11.100

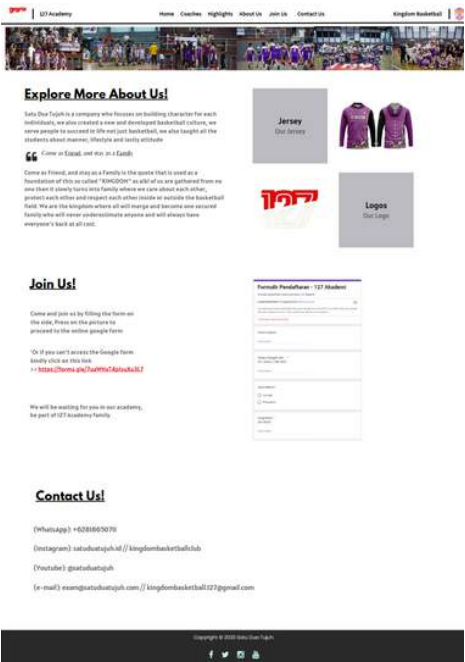
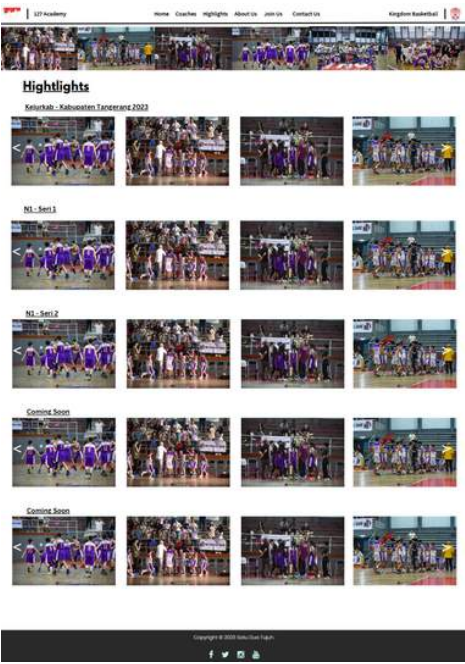
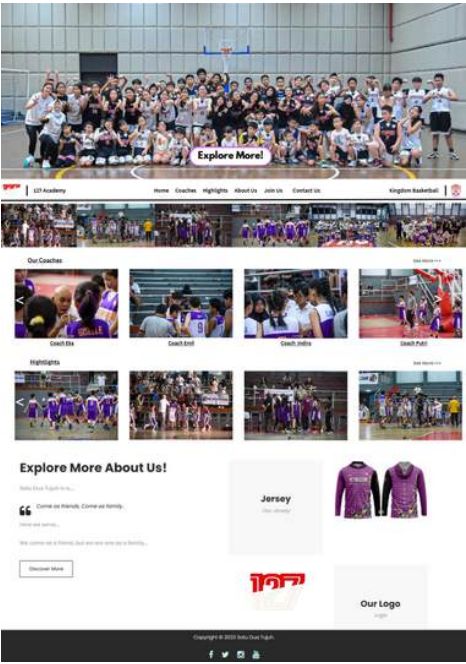


A photograph of a laptop in a dark setting, with its screen showing lines of code. A semi-transparent black bar is centered horizontally across the middle of the image, containing the text 'WORK EXPERIENCE' in white, all-caps, sans-serif font. The laptop is open, and its keyboard is visible in the lower foreground. The background is dark and out of focus, with a faint light source visible on the left.

WORK EXPERIENCE

SATUDUATUJUH INDONESIA

Here is my work experience as an assistance coach for SatuDuaTujuh academy and also took the role of making the website where all the coaches data and players data is provided. The work experience involve 1 year in contract. Here I learn many things such as time management and organising an organization.

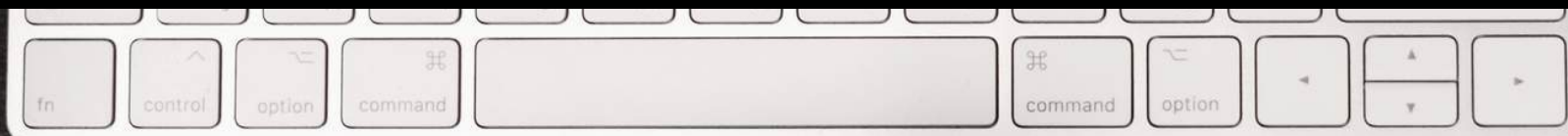




AUGUSTE, RODIN

TASCH

STUDIES PROJECT



A black and white photograph showing a close-up of a computer keyboard. A dark, rectangular sign is placed diagonally across the keyboard, featuring the words "NOW OR NEVER" repeated in a bold, white, sans-serif font. The sign is tilted at approximately a 45-degree angle. The keyboard keys are visible in the background, with labels like "command" and "option" partially visible. The overall composition suggests a theme of urgency or a call to action.

KLASIFIKASI PERMASALAHAN KESEHATAN MENTAL
MENGUNAKAN HYBRID SUPPORT VECTOR MACHINE
DAN DECISION TREE MAHASISWA TANGERANG



Emilio Yanvrent
0000069993

PROGRAM STUDI SISTEM INFORMASI
FAKULTAS TEKNIK DAN INFORMATIKA
UNIVERSITAS MULTIMEDIA NUSANTARA
TANGERANG
2024

KLASIFIKASI PERMASALAHAN KESEHATAN MENTAL MENGGUNAKAN HYBRID SUPPORT VECTOR MACHINE DAN DECISION TREE MAHASISWA TANGERANG

KLASIFIKASI KESEHATAN MENTAL MENGGUNAKAN SUPPORT VECTOR
MACHINE DAN DECISION TREE PADA MAHASISWA TANGERANG

Emilio Yanvrent

ABSTRAK

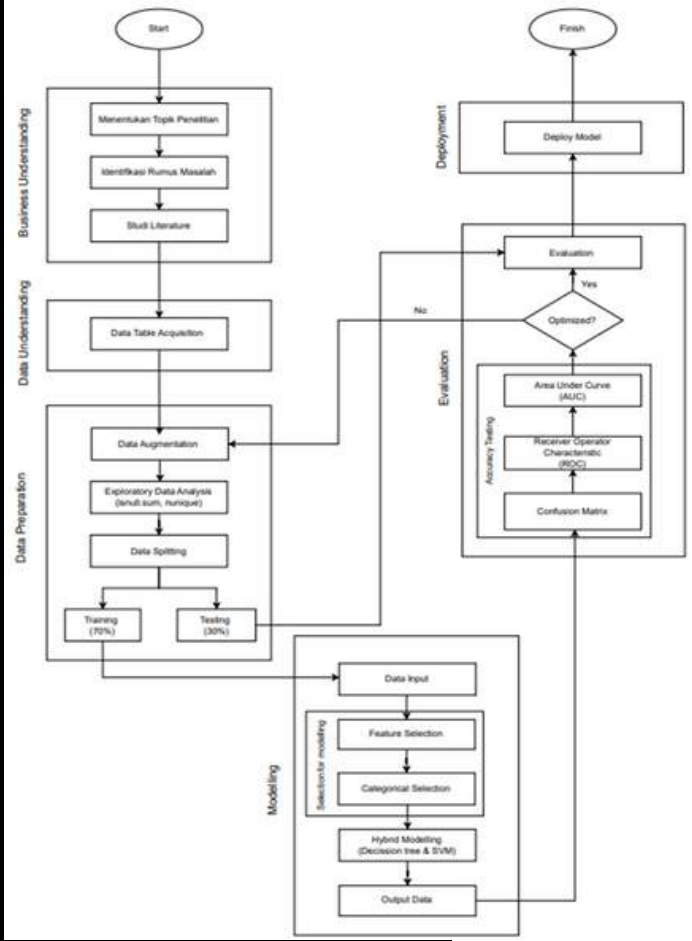
Students' mental health is an important issue in higher education, especially due to academic pressure, intense social media use, and challenges in social relationships. This study was conducted on students at five private universities in Tangerang aged 18-25 years old. The purpose of the study was to determine the factors that influence students' mental health, including academic pressure, social media use, and social support, and to understand the pattern and influence of these factors on their mental health.

The research method used a quantitative approach. Data was collected through a survey using a questionnaire which was then analyzed using machine learning techniques. The algorithms used were Decision Tree to identify the main factors affecting mental health, and Support Vector Machine (SVM) to classify students' mental health conditions. The analysis process begins with cleaning the data, filling in missing data, converting the data into numerical form, and normalizing the data to make it easier to analyze. Model performance was evaluated using accuracy, precision, recall, and F1-Score.

The results showed that academic pressure, duration of social media use, and social support strongly influenced students' mental health. The Decision Tree algorithm successfully pinpointed important factors affecting mental health, while SVM provided accurate classification results. The conclusion of this study is the importance of managing academic pressure, limiting social media use, and strengthening social support to help maintain students' mental health.

Kata kunci: akademik, kesehatan mental, mahasiswa, media sosial, Tangerang

Here is my proposal for my thesis paper, here i tried making a hybrid studies to classify Mental health in Tangerang. In order to renew the research I included new algorithm and uses primary data to gather the data.



UNDERSTANDING FACTORS THAT AFFECT STUDENTS' MENTAL HEALTH: MACHINE LEARNING, METHOD CLASSIFICATION

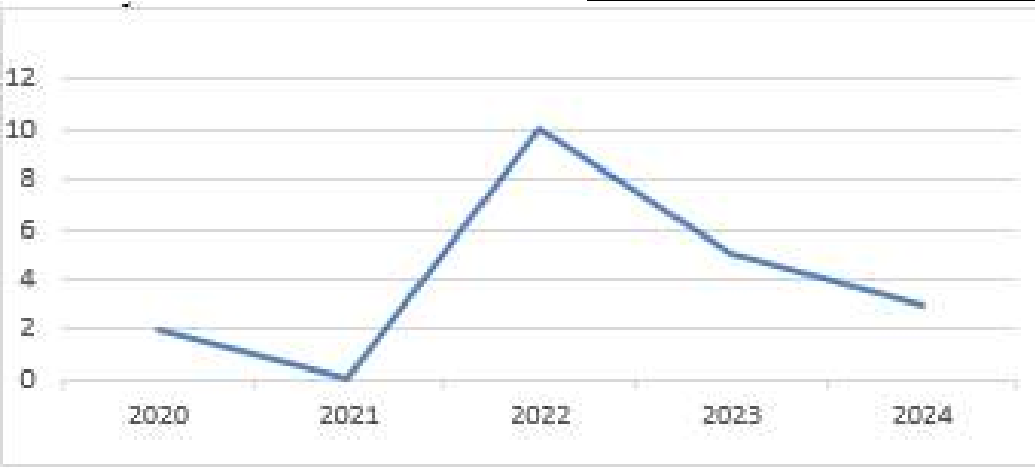
Here is my systematic literature review, here i tried comparing previous research studies to classify Mental health in Tangerang. Where i scored 90 as the final score from the lecturer and are used as an example for other students for making systematic literature review

Table 3. Summary of selected research papers			
ID	Title	Author	Year
S1	Mental Health State Prediction Method of College Students Based on Integrated Algorithm	N. Guo	2024
S2	Detection and classification of anxiety in university students through the application of machine learning	S. Bhatnagar	2022
S3	Analysis of the Effects of Lockdown on Staff and Students at Universities in Spain and Colombia Using Natural Language Processing Techniques	M. Jojoa	2022
S4	Prediction of University Students' Subjective Well-Being with Sleep and Physical Activity Data using Classification Algorithms	A.C. Kiliç	2022
S5	Machine Learning Classification Algorithms for Predicting Depression Among University Students in Bangladesh	U.B. Munir	2022
S6	The Influence of Cultural Communication on the Psychological Health of University Students in the Environment of Big Data	L. Yang	2022
S7	Depression screening using mobile phone usage metadata: a machine learning approach	R. Razavi	2020
S8	The Factors Influencing High School Student's Mental Health: An Exploratory Research in Hanoi	T. T. M. Huong <i>et al.</i>	2023
S9	Factors That Influence Mental Illness Among Students in Public Universities	N. Kandasamy, <i>et al.</i>	2020
S10	Student's Perception of School-Related Factors of Mental Health Problems	D. Solomon Ojonugwa	2024
S11	Preventing Student's Mental Health Problems with the Help of Data Mining	MDN HOSSAIN, <i>et al.</i>	2024
S12	Machine learning-based prediction of mental well-being using health behavior data from university students	H Abdul Rahman, M Kwicklis, M Ottom...	2023
S13	Impact of mobile connectivity on students' wellbeing: Detecting learners' depression using machine learning algorithms	Mi Siraji, AA Rahman, <i>et al.</i>	2023
S14	Mental Health Analysis at the University of Dipa Makassar using Naïve Bayes Classifier	AI Maulana, R Rismayani	2023
S15	Prediction Modeling of Mental Well-Being Using Health Behavior Data of College Students	HA Rahman, M Kwicklis, M Ottom...	2022
S16	Prediction of Depression for Undergraduate Students Based on Imbalanced Data by Using Data Mining Techniques	W Narkibunnun, K Wisaeng	2022
S17	The Comparison of Classification of Stress Level Related to Student's Menstrual Cycle Irregularities with Support Vector Machine and Decision Tree Algorithm	H Nooraini, U Salamah...	2022
S18	Student Performance Prediction in Sebelas Maret University Based on the Random Forest Algorithm	M Gusnina, U Salamah	2022
S19	A comprehensive study on student's academic performance prediction using artificial intelligence	K Mahawar, P Rattan	2023
S20	Mental Health of Indonesian University Students: UK Comparison, and Relationship Between Mental Health Shame and Self-Compassion	Kotera Y, Kotera H, Taylor E, <i>et al.</i>	2022

Understanding Factors That Affect Students' Mental Health: Machine Learning, Method Classification

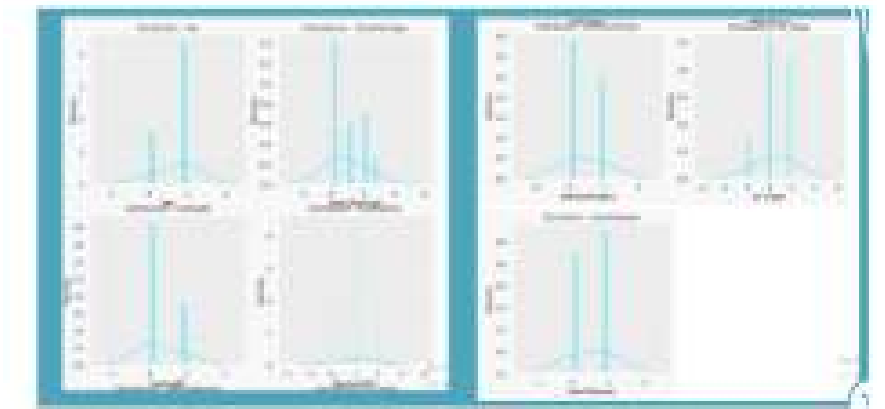
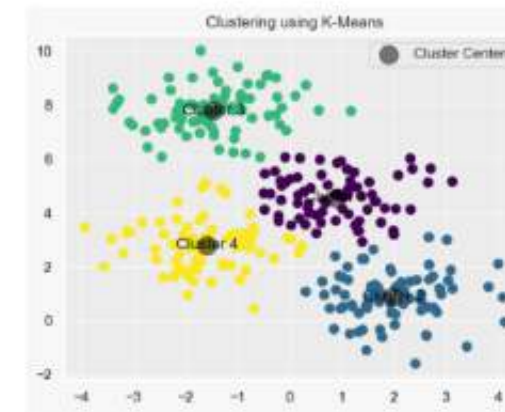
Emilio Yanvrent¹, Raymond Oetama², Wella³
Information System, Faculty of Engineering and Information, Universitas Multimedia Nusantara, Banten, Indonesia, 15810
Lecturer, Universitas Multimedia Nusantara, Banten, Indonesia, 15810
Lecturer, Universitas Multimedia Nusantara, Banten, Indonesia, 15810

Article Info	ABSTRACT (10 PT)
<p><i>Article history:</i></p> <p>Received month dd, yyyy</p> <p>Revised month dd, yyyy</p> <p>Accepted month dd, yyyy</p>	<p>Mental health problems among university students in Indonesia are on the rise, fueled by social pressures, financial struggles, and the stigma that still surrounds mental health. This Systematic Literature Review (SLR) looks at the key factors affecting how mental health issues are classified among students, focusing on how machine learning and classification algorithms can help. By reviewing 20 research papers, we explored methods like decision trees, support vector machines, and data mining. The results reveal a gap in studies that address the specific mental health challenges Indonesian students face, pointing to the need for better support systems. Future research should dig deeper into the underlying causes of these problems and explore new ways to improve how we classify and predict mental health issues. The research goal is to contribute to more effective, data-driven mental health support for students, helping them lead healthier, more balanced lives.</p>
<p><i>Keywords:</i></p> <p>University Student</p> <p>Mental Health</p> <p>Classification Algorithms</p> <p>Machine Learning</p> <p>Indonesia</p>	



ANALISIS PENYAKIT JANTUNG DENGAN MEMBANDINGKAN ALGORITMA K-MEANS, GMM DAN K-MEDOIDS

In this studies project I took role as the group leader which in this project i took role in making the coding the algoritm and making the moddelling for this analysis.



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Date of publication xxxx 00, 0000, date of current version xxxx 00, 0000.

Digital Object Identifier 10.1109/ACCESS.2024.Doi Number

ANALISIS PENYAKIT JANTUNG DENGAN MEMBANDINGKAN ALGORITMA K-MEANS, GMM DAN ALGORITMA K-MEDOIDS (Mei 2024)

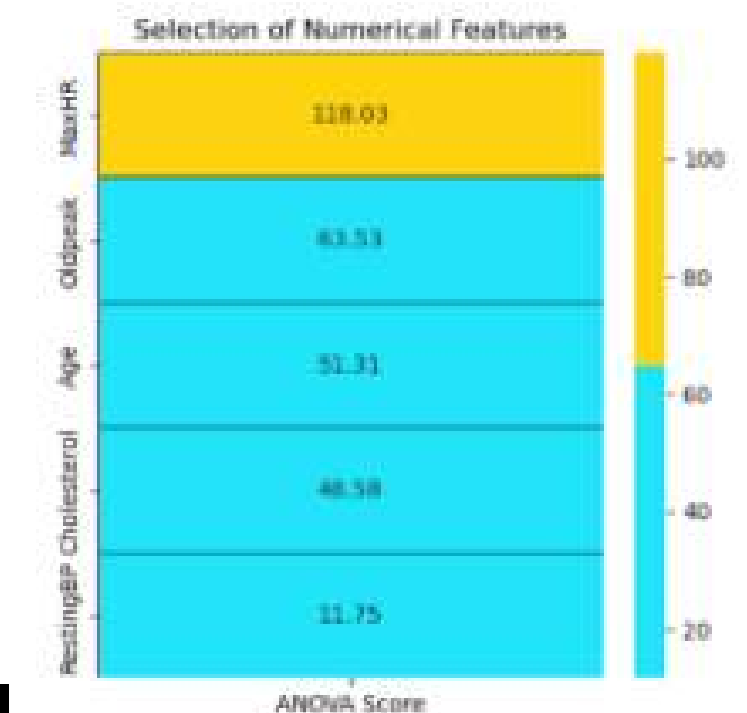
Angelica Yoshe¹, Salsabillah Isnain Zahirah², Emilio Yanvrent³, Putri Marcellina⁴, Maura Davita Erzanda⁵

Faculty of Engineering & Information
Universitas Multimedia Nusantara, Tangerang Banten 15810, Indonesia.

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putri.marcellina@student.umn.ac.id⁴; maura.davita@student.umn.ac.id⁵

ABSTRACT Penyakit jantung adalah salah satu penyebab utama kematian di seluruh dunia, termasuk di Indonesia. Deteksi dini, pemahaman faktor risiko, dan prediksi potensi penyakit jantung sangat penting dalam pencegahan dan penanganan penyakit ini. Analisis penyakit jantung menggunakan teknik klusterisasi menawarkan pendekatan menarik untuk mengidentifikasi pola yang terkait dengan risiko penyakit jantung. Dalam penelitian ini, kinerja tiga algoritma klusterisasi, yaitu K-Means, K-Medoids, dan Gaussian Mixture Model (GMM), dibandingkan dalam analisis penyakit jantung. Algoritma-algoritma ini dievaluasi berdasarkan kemampuannya mengelompokkan data pasien dengan akurasi dan efisiensi yang tinggi. Penelitian ini bertujuan untuk memberikan pemahaman yang lebih baik tentang efektivitas dan keunggulan relatif masing-masing algoritma dalam mengelompokkan data penyakit jantung. Dengan menggunakan data medis yang relevan, hasil penelitian ini diharapkan dapat menjadi dasar pengembangan metode analisis penyakit jantung yang lebih efisien dan akurat di masa depan. Selain itu, hasil dari penelitian ini juga dapat membantu praktisi medis dalam membuat keputusan yang lebih tepat dalam diagnosis dan perawatan pasien dengan risiko penyakit jantung.

INDEX TERMS Penyakit jantung, deteksi dini, faktor risiko, klasterisasi, K-Means, K-Medoids, Gaussian Mixture Model (GMM)



PROJECTS

PROJECTS

Universitas Multimedia Nusantara, 2024

Classification of Menstrual Bleeding Detection Based on Menstrual Period and Frequency of Bleeding During One Menstrual Period Using Instance-Based Learning Method with KNN

Daffa Ariefa [Aradhana](#)¹, Emilio [Yanvrent](#)², Maura Davita [Erzanda](#)³, and Putri [Marcellina](#)⁴

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Abstract – Menstruation is a normal thing that happens to females during their teenage age. But many of them were unaware of the fact that excessive bleeding during menstruation indicates a serious health issue. This unaware issue had caused such a high number of feminine issues. This unfortunate fact has caused researcher's interest in finding what things can cause feminine issues. To make sure this is an urgency, the researcher is looking for cases of death that are caused by menstruation. As a result, researchers identified 46 death cases caused by natural reasons related to menstruation issues. To improve detection and management, this research proposes developing artificial intelligence using a machine learning method based on K-Nearest Neighbors (KNN) instance-based learning. The data used for this research is taken from Kaggle. The research follows several steps, such as splitting data into 80% for training and 20% for testing, developing models using ROC with a result of 0.81%, and using a confusion matrix with 31 true negatives

and test accuracy using cross-validation. The accuracy achieved is 97%. The system predicts the severity of bleeding during one menstrual period, with the primary goal of distinguishing between normal and abnormal bleeding. The findings aim to contribute significantly to the early detection of women's health problems. It is hoped that the results of this research will greatly benefit doctor-patient care and help prevent more serious women's health issues.

Keywords – Menstruation, Bleeding, Cycle, KNN, Instance Based Learning, Regression, Age, Height, Weight, Body Mass Index.

I. INTRODUCTION

Menstruation, also known as menstruation or menstrual periods, refers to periodic physiological changes in the human body influenced by reproductive hormones such as FSH-Estrogen and LH-Progesterone [9]. Menstruation is a process of bleeding that usually

```
from sklearn.ensemble import RandomForestClassifier

# Initialize the RandomForestClassifier
rf = RandomForestClassifier(n_estimators=100, random_state=42)

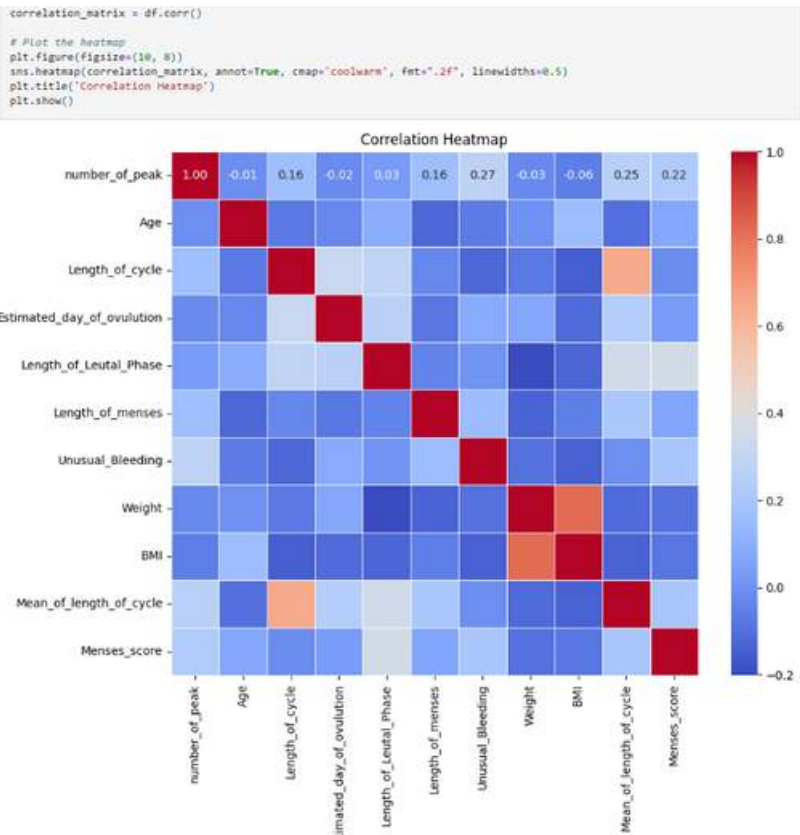
# Fit the model
rf.fit(X_train, y_train)

# Make predictions
y_pred_rf = rf.predict(X_test)

# Calculate accuracy
accuracy_rf = accuracy_score(y_test, y_pred_rf)
print("Random Forest Accuracy:", accuracy_rf)

# Print classification report
print("\nRandom Forest Classification Report:")
print(classification_report(y_test, y_pred_rf))
```

Random Forest Accuracy: 0.9393939393939394



In this studies project I took role as the group leader. which in this project i took role in making the coding the algorithm and making the modeling for this analysis.

CLASSIFICATION OF MENSTRUAL BLEEDING DETECTION BASED ON MENSTRUAL PERIOD AND FREQUENCY OF BLEEDING DURING ONE MENSTRUAL PERIOD USING INSTANCED-BASED LEARNING METHOD WITH KNN

ANALISIS PENJUALAN PADA PERUSAHAAN OUTLET OLAHRAGA BERNAMA SPORTIZER MENGGUNAKAN DCOVA&I

27 Mei 2024

Analisis Penjualan Pada Perusahaan Outlet Olahraga Bernama Sportizer Menggunakan DCOVA & I

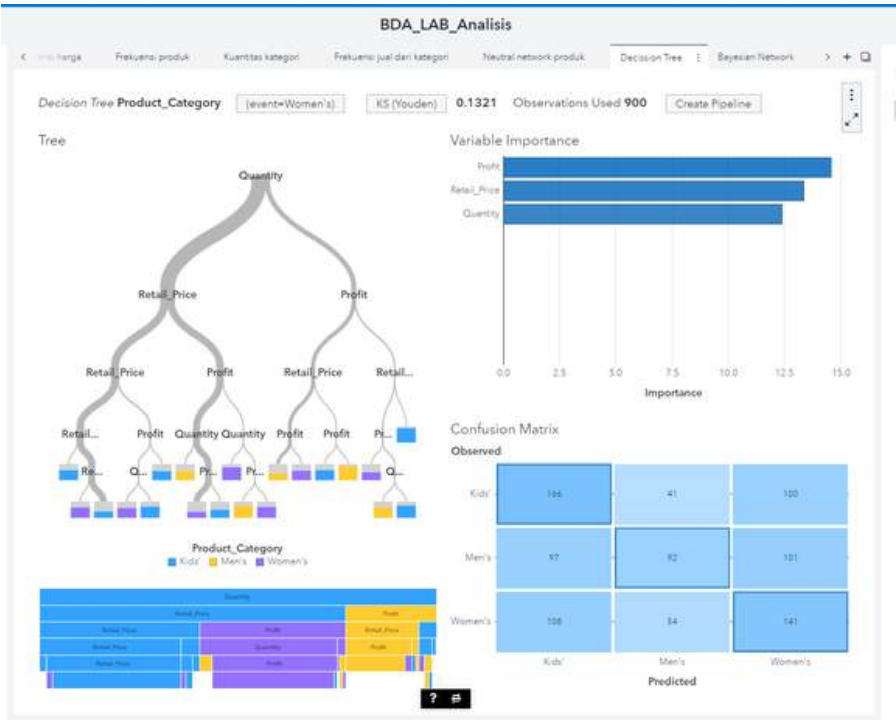
Emilio Yanvrent¹

¹ Sistem Informatika, Fakultas of Teknik dan Informatika Universitas Multimedia Nusantara, Banten, Indonesia 15810

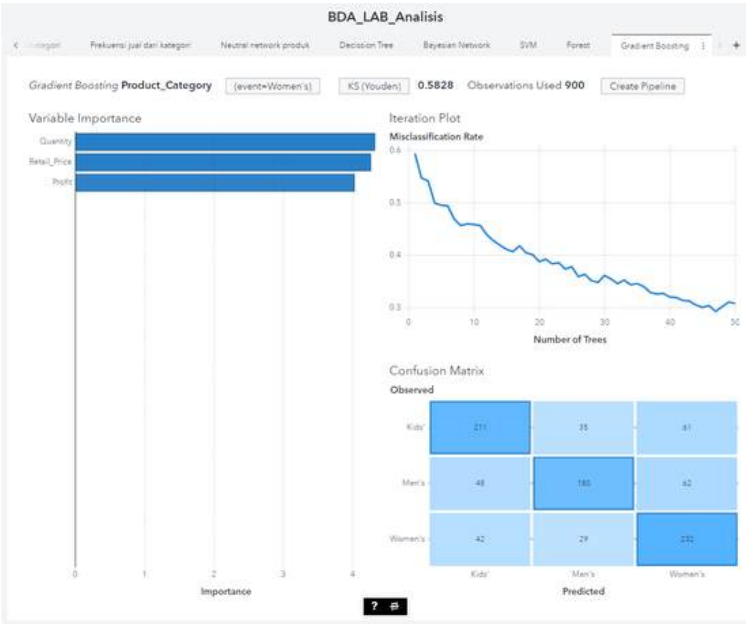
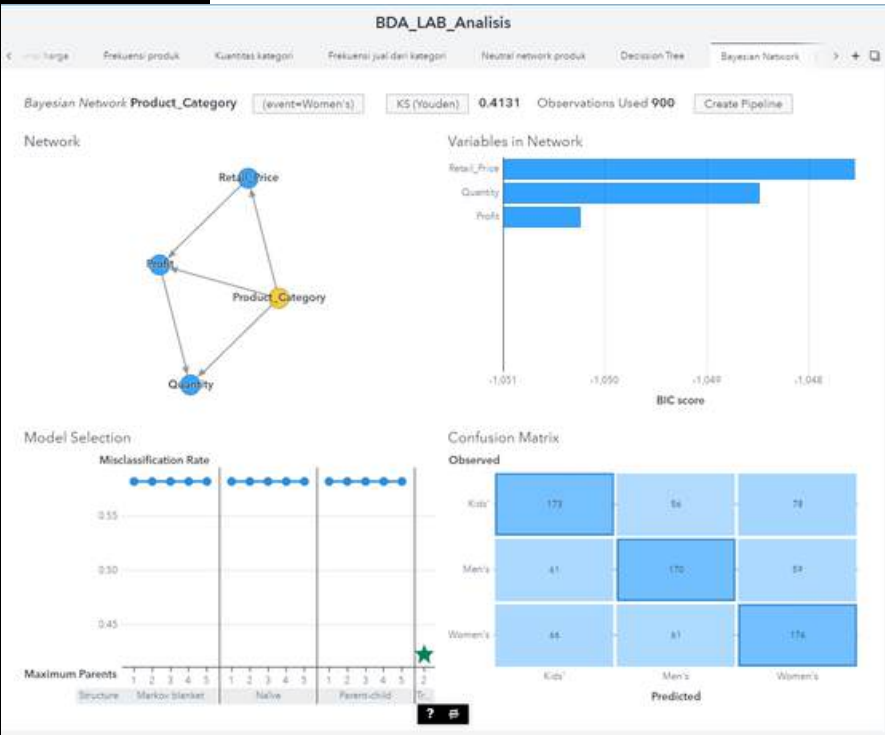
Intisari— Teknologi terus berkembang dengan pesat, dan dampaknya merambah ke berbagai industri secara global. Salah satu alat penting yang telah muncul dari perkembangan ini adalah Big Data Analytics, yang telah menjadi instrumen kunci dalam menganalisis data dan mendorong pertumbuhan bisnis. Studi ini berfokus pada penerapan analitik big data untuk mengevaluasi jalur pertumbuhan Sportizer, sebuah organisasi terkemuka di Distrik Factory Outlet. Studi ini bertujuan untuk menemukan pola, tren, dan wawasan yang mendukung kesuksesan Sportizer dalam industri yang kompetitif ini dengan menggunakan SAS Drive sebagai alat visualisasi. Melalui penerapan metodologi DCOVA & I (Define, Collect, Organize, Visualize, Analyze, dan Insights), studi ini menerapkan pendekatan terstruktur untuk memvalidasi temuan dan secara sistematis menangani tantangan bisnis utama. Proses analisis yang komprehensif dan iteratif dipastikan oleh kerangka kerja DCOVA & I, yang melibatkan fase-fase seperti mendefinisikan tujuan, mengumpulkan data, mengorganisir data, memvisualisasikan data, menganalisis data, dan menarik wawasan. Pemangku kepentingan diberdayakan untuk membuat keputusan strategis yang berinformasi baik oleh wawasan yang jelas dan dapat ditindaklanjuti yang ditawarkan oleh visualisasi data yang kompleks melalui SAS Drive. Dengan temuan ini, diharapkan Sportizer dapat mengoptimalkan operasinya, meningkatkan keterlibatan pelanggan, dan mempertahankan pertumbuhan jangka panjang. Abstrak ini menyoroti potensi transformatif dari strategi yang didorong oleh data dalam lanskap bisnis modern, serta menekankan pentingnya persimpangan antara inovasi teknologi dan analitik bisnis dalam memajukan perusahaan.

Abstract— Technology continues to rapidly evolve, with its impact spreading across various industries globally. One significant tool that has emerged from this development is Big Data Analytics, which has become a key instrument in analyzing data and driving business growth. This study focuses on the application of big data analytics to evaluate the growth trajectory of Sportizer, a leading organization in the Factory Outlet District. The study aims to uncover patterns, trends, and insights that support Sportizer's success in this competitive industry using SAS Drive as a visualization tool. Through the application of the DCOVA & I methodology (Define, Collect, Organize, Visualize, Analyze, and Insights), this study employs a structured approach to validate findings and systematically address key business challenges. A comprehensive and iterative analysis process is ensured by the DCOVA & I framework, involving phases such as defining objectives, collecting data, organizing data, visualizing data, analyzing data, and drawing insights. Stakeholders are empowered to make informed strategic decisions by clear and actionable insights offered by complex data visualizations through SAS Drive. With these findings, it is expected that Sportizer can optimize its operations, enhance customer engagement, and sustain long-term growth. This abstract highlights the transformative potential of data-driven strategies in the modern business landscape, emphasizing the importance of the intersection between technological innovation and business analytics in advancing companies.

Keywords— Big Data, perusahaan, Olahraga, tren penjualan, visualisasi



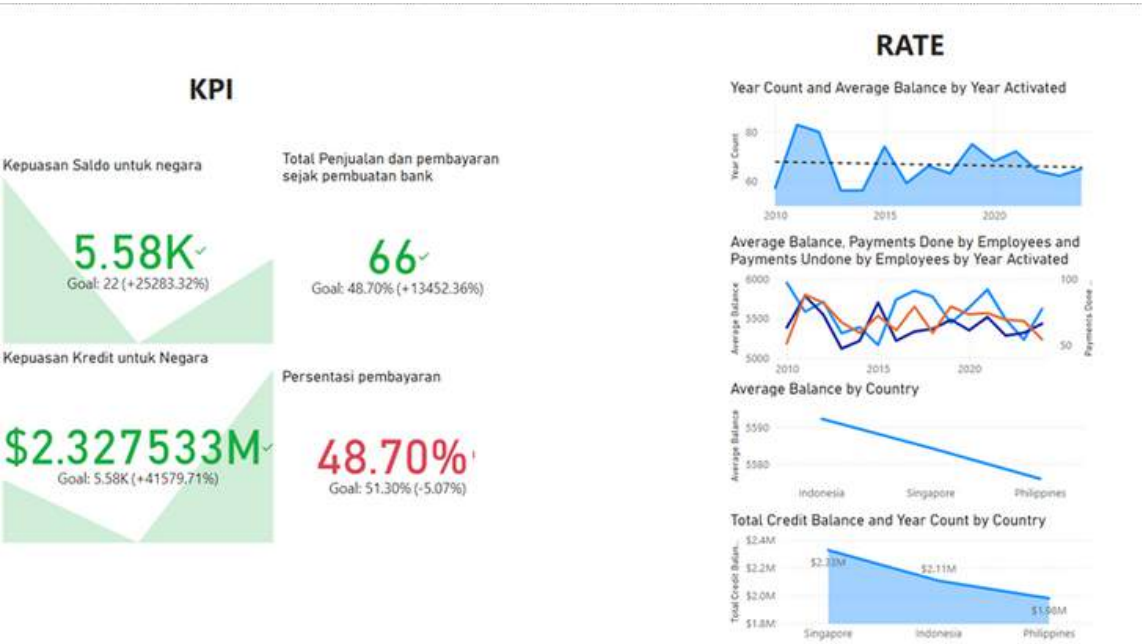
Here is some example of using SAS to analyse sales on a sport outlet. the data was made using AI and was then analysed to draw a conclusion that the sales happened in which country is the best and which age.



ANALISIS PENJUALAN PADA PERUSAHAAN BANK BERNAMA BANK RAKYAT MENGUNAKAN POWER BI

PROJECTS

Here is an example of me implementing Power BI to analyse the sales happened on a bank. the data uses are created by AI and then it was analysed based on the country and compared the sales happening.

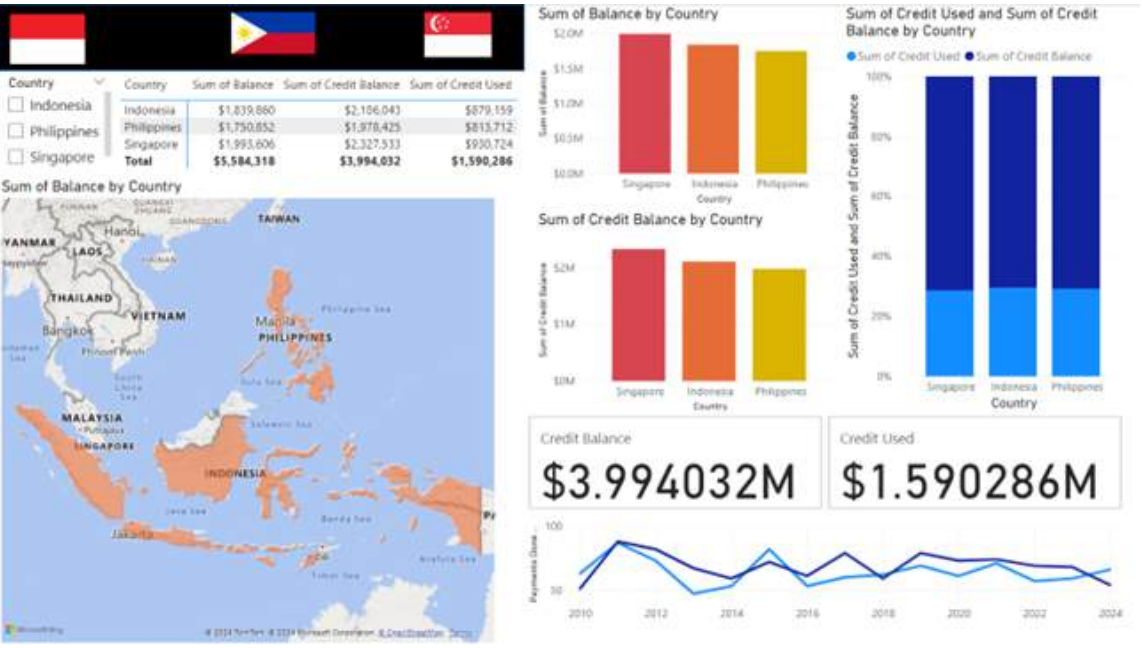


Perusahaan: Bank Rakyat

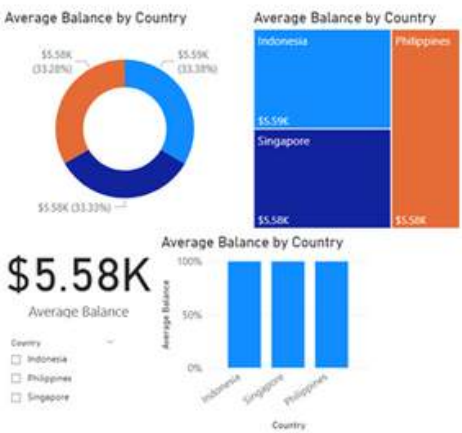
Bisnis: Banking



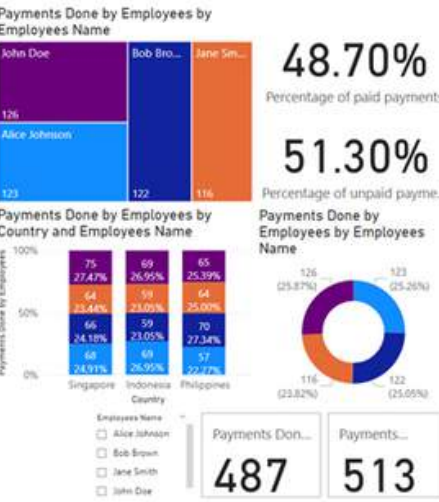
Bank Rakyat merupakan perusahaan yang bergerak pada bidang keuangan atau bank dan telah berdiri sejak 2019 untuk membantu rakyat dalam menyelesaikan masalah keuangan. Mulai dari penyimpanan uang yang mudah dengan biaya admin yang rendah, peminjaman uang yang cepat cair dan limitnya tinggi dengan bunga balik tidak menyentuh 10% dan menyediakan kartu kredit dengan saldo kredit lebih dari 20 juta. Bank Rakyat berdiri sampai sekarang karena prosesnya yang relatif cepat dan mudah sehingga pengguna bank ini dapat mendapatkan keuntungan yang sangat banyak. Sesuai dengan namanya Bank Rakyat dimana bank ini membantu rakyat yang kesusahan dalam keuangan, dengan bantuan teknologi yang begitu pesat perkembangannya, bank ini dapat bekerja dengan lancar untuk menghitung pengeluaran, pemasukan hingga peminjaman yang harus dibayar tiap bulannya dengan cepat. Bank Rakyat yakin dengan adanya perusahaan ini dapat membantu banyak sekali rakyat yang kurang mampu untuk menyelesaikan masalah keuangannya dengan mudah.



Data Customer



Data Pekerja



LICENSES & CERTIFICATIONS



INTERNATIONAL BACCALAUREATE



INTERNATIONAL GENERAL CERTIFICATION
OF SECONDARY EDUCATION




CERTIFICATION OUTSIDE SCHOOL

AWARDS




Sertifikat
Diberikan Kepada :
Emilio Yanvrent
Atas Prestasinya sebagai
PERINGKAT 3
KEJURNAS BOLA BASKET TAHUN 2018
KU.14 TH PUTRA
yang diselenggarakan pada tanggal
10 - 17 Januari 2019 di
Gor UNPRI
Medan, Sumatera Utara
Danny Kasasih
Ketua Umum PP. Perbas

KEJURNAS



CERTIFICATE OF RECOGNITION
SENIOR HIGH SCHOOL
This certificate is awarded to
Emilio Yanvrent
for being Most Improved Student at Stella Maris School
in Academic Year 2020 - 2021
IB Programme
Niña Francesca Fuentes-Genardo
Principal
Maria S. Santy
Head of School

RECOGNITION



Sertifikat
Diberikan Kepada:
Emilio Yanvrent
Atas Prestasinya Sebagai
JUARA I
Kejuaraan Daerah Bola Basket Provinsi Banten KU 14 Tahun 2018
Serang, 20 - 28 Oktober 2018
Ahmed Zaki Iskandar
PERBASI
Ketua Umum

KEJURDA

EGGSYS **UMN** **IS** **UMN**

MOBILE ERP
Merajut Kesuksesan UMKM
Dengan Framework Buatan Indonesia

Ahmad Bulling
IT Teknologi Adoption Senior Manager
IT Product & Services Dept Head
VP IT Retail Pondok Lensa
CTO - Co Founder

Media Partner : **abumida** **JAMBI PRIDE** **Tim Telur**

Sponsorship : **abumida** **JAMBI PRIDE** **Tim Telur**



SEMINAR CREATION





HOPE TO WORK
WITH YOU
Soon

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