I GUSTI BAGUS RAMADHA SAVERIAN RANUH
Data Scientist Intern

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SUMMARY

Passionate Data Scientist and Machine Learning enthusiast with a strong background in Computer Science and Intelligent System. Competent in Data Analyst and ML Engineer using diverse programming tools. Capable for technical problem-solving and social impact initiatives. Eager to grow and contribute, driven by a desire to enhance technical expertise and effect positive change in the communities.

EDUCATION

BINUS UNIVERSITY – Jakarta, Indonesia   Sept 2022 – Present
Bachelor of Computer Science - GPA 3.94/4.00
Streaming: Intelligent System

ORGANIZATION

Data Science Club – Jakarta, Indonesia   Sept 2024 – Present
Member at BINUS University
- Actively collaborate with fellow members participate in workshops, and engage in discussions to enhance skills in machine learning, data analysis, and research methodologies.

UREEKA BINUS – Jakarta, Indonesia   April 2024 – Present
Member at UREEKA BINUS University
- Engaging in data mining training through UREEKA, collaborating in teams to compete in various data competition.

EXPERIENCE

Freshmen Partner – Semarang, Indonesia   Sept 2023 – July 2024
Freshmen Partner at BINUS @Semarang
- Guides freshmen by sharing essential experiences and materials to help them navigate university life with focus and enjoyment.

Tutor – Semarang, Indonesia   Sept 2023 – January 2024
Tutor at BINUS @Semarang
- Taught two subjects—Algorithm & Programming and Discrete Math—to first-semester students.
- Voluntarily conducted two weekly classes, each session consistently attracted over 10-12 students, to assist students struggling with course material, helping them improve their understanding and achieve their academic goals.

ACHIEVEMENTS

10th National Finalist ADSE Competition – Jakarta, Indonesia   April 2024 – August 2024
National Finalist ASEAN Data Scientist Explorers Competition Issued by ASEAN Foundation and SAP
- Developing a pioneering data-driven solution for the 2024 ASEAN Data Scientist Explorers Competition focuses on "Enhancing Waste Management through Integrated Waste Banks and Gamification Incentives," aims for advancing sustainable waste management practices across ASEAN countries.

20th Finalist SOCS AI For Accessibility Hackathon – Jakarta, Indonesia   April 2024
Finalist School of Computer Science Hackathon 2024 BINUS x Microsoft (AI4A)
- Builds a mobile web application designed to assist those with vision impairments in identifying objects and text from a distance or from areas inaccessible with a white cane (upper body). making use of Microsoft Azure features including Speech Service, Translator, and Computer Vision. Everything will be spoken, from text to speech.

Researcher at ICCSCI – Jakarta, Indonesia   August 2024
Researcher at ICCSCI held by Procedia Computer Science and Elsevier
- Conduct a research paper presented at the International Conference on Computer Science and Computational Intelligence (ICCSCI), focusing on a comparative analysis of deep learning algorithms for the classification of hyperpigmented skin diseases. The study explored performance metrics across various models to optimize diagnostic accuracy.

SKILLS

- **Programming:** Python, C/C++, SQL, Java, MongoDB, ExpressJS, React, NodeJS, HTML, CSS, JavaScript
- **Data Visualization:** Tableau, SAP Analytic Cloud
- **Deep Learning:** TensorFlow, Keras, PyTorch
- **DevOps:** Git/GitHub, Docker
- **Data Science & Miscellaneous Technology:** A/B Testing, ETL, Data Pipeline, Statistics, Time series, Experimental design, Hypothesis testing, OOP, APIs

PROJECTS

NLP LLM-RAG-Based Chatbot Model

Python, LLM, RAG, Llama CCP, Llama Index

This project implements an AI chatbot using Large Language Models (LLM) and Retrieval Augmented Generation (RAG) techniques to provide detailed answers based on knowledge extracted from PDF documents.

Speech Emotion Recognition

Python, CNN, TensorFlow, Keras, Librosa

Developed a Speech Emotion Recognition system using Convolutional Neural Networks (CNN) with TensorFlow. The project involved training a model to recognize emotions from speech input, utilizing audio features for accurate emotion classification.

Patient's Condition Classification Using Drug Reviews

Python, XGBoost, PAC, Logistic Regression, KNN, SVM, Random Forest

Analyze the disease description to predict the specific medical condition or diagnosis using advanced machine learning algorithms (XGBoost, PAC, LR) and natural language processing techniques (TF-IDF, Word2Vec).

Twitter Sentiment Analysis - Comparing Traditional Methods with Deep Learning Methods

Python, Logistic Regression, LSTM

This project aims to analyze and classify sentiments expressed in Twitter posts using both traditional machine learning and deep learning techniques. The traditional method employs logistic regression to classify tweets, while the deep learning method leverages Long Short-Term Memory (LSTM).

Deep Learning Algorithms for Image Based Classification of Hyperpigmented Skin Disease

Python, YOLO, DenseNet201, GoogleNet, InceptionResNetV2, MobileNet

Analyze and compare for hyperpigmented skin disease using machine learning and deep learning techniques. The study analyzed pretrained models like YOLO, DenseNet201, GoogLeNet, InceptionResNetV2, and MobileNet.

Doctor Hunter

Java, JavaFX, JDBC, SQL, MySQL

Doctor Hunter is a fun comprehensive GUI-based application project developed using JavaFX and connected to SQL database using JDBC, designed to streamline the process of scheduling doctor appointments and managing healthcare-related tasks.

BCA Business Case

Canva, Tableau, Excel

investigating the current landscape of digital banking in Indonesia, particularly how fintech and digital platforms are reshaping financial services. This involves analyzing the rise of seamless and convenient banking services that enhance financial inclusion and developing a strategy to position BCA Digital (blu) as a leader in the digital banking space.