Radithya Fawwaz Aydin

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SUMMARY

Final-year Information Technology student who combines technical expertise in data analysis and machine learning with proven experience in project management and organizational leadership. A proactive and detail-oriented problem-solver, capable of translating data into solutions and managing teams to achieve goals.

ORGANIZATION & WORK EXPERIENCES

PT. FSCM MANUFACTURING INDONESIA
FL – Procurement (Project Digitalization) (February – August 2025)

- Analyzed procurement processes and identified bottlenecks in supplier scheduling that caused warehouse inefficiencies.
- Designed, developed, and launched a centralized warehouse booking system from scratch using Google Sheets and Google Apps Script to optimize manual workflows.
- Improved efficiency and inventory data visibility (inventory reliability) for the Procurement team by integrating Google Cloud API for automated workflows.
- Produced comprehensive technical documentation to support user adoption and long-term operational efficiency.

CODING CAMP POWERED BY DBS FOUNDATION
Machine Learning Engineer Cohort (February – July 2025)

- Completed a structured curriculum covering Python fundamentals, data preprocessing, and applied machine learning.
- Contributed to the capstone project "We're Cooked," developing and deploying a product (recipe recommendation system) on the Hugging Face API.
- Strengthened collaboration, communication, and problem-solving skills in a cross-functional team environment through mentoring sessions and group projects.

ID/X PARTNERS X RAKAMIN ACADEMY
Project-Based Virtual Intern: Data Scientist (January – February 2025)

- Analyzed large datasets to identify trends and behavioral patterns using data wrangling techniques.
- Developed deep learning models for predictive analysis to support data-driven business decision-making and risk analysis.
- Formulated actionable recommendations based on data findings to assist stakeholders.

BEM FILKOM UB 2024

Ministry of Creative Economic (January - December 2024)
- Managed the entrepreneurship program lifecycle (FILKOMPRENEUR, etc.), from ideation and strategic planning to event execution.
- Led a cross-functional team, managing project timelines, delegating tasks, and motivating the team to achieve collective goals.
- Built and maintained collaborations with external stakeholders (speakers, partners) to ensure program success.
- Organized training sessions to develop product skills (branding, marketing) for student entrepreneurs.

Staff of Creative Economic Ministry (March - November 2023)
- Establish collaborations with companies for academic-related initiatives.
- Oversee clothing sales to generate profit and gain experience in buying and selling.
- Manage partnerships and sales processes, from outreach to transaction handling.

PROJECT EXPERIENCES

Predictive Analysis and Classification of Student Depression | Self Project

This project aimed to build a machine learning model to detect the risk of depression in students early, based on demographic, academic, and lifestyle data. The goal was to help educational institutions provide timely interventions.

- **Objective:** To address an institutional problem in early depression risk detection by developing a binary classification model to predict at-risk students and identify the most influential factors.
- **Methodology:**
  - **Models:** Implemented and compared two classification models: Logistic Regression and Random Forest Classifier.
  - **Data Preprocessing:** Performed data cleaning, handled missing values, applied feature scaling, and used Principal Component Analysis (PCA) for dimensionality reduction.
  - **Evaluation:** The models were evaluated using accuracy, precision, recall, F1-score, and AUC-ROC, with a primary focus on *recall* to minimize undetected depression cases.
- **Outcome:** Logistic Regression was selected as the optimal model, achieving a recall of 89% and an AUC-ROC of 0.92, demonstrating its superior ability to identify students with depression compared to Random Forest.
- **Project Link:** https://github.com/wingscode123/studepression_predictive-analytic

Content-Based Movie Recommendation System (TMDB 5000) | Self Project

This project developed a recommendation system to suggest movies to users based on content similarity, helping them discover relevant films from a vast selection.

- **Objective:** To solve the user "cold-start" problem in film discovery by building a content-based filtering system that provides the top 5 recommendations for new users.
- **Methodology:**
  - **Approach:** Utilized *Content-Based Filtering* by analyzing movie features such as genre, keywords, overview, cast, and director.
  - **Techniques:** Applied *Countvectorizer* to convert text features into numerical vectors and calculated the similarity between movies using Cosine Similarity.
  - **Data:** Used the "TMDb 5000 Movie Dataset" from Kaggle.
- **Outcome:** The system successfully delivered a product feature (relevant recommendations with ~80% precision) and effectively solved the cold-start problem, as it does not rely on user interaction history.
- **Project Link:** https://github.com/wingscode123/movies_recsys_tmdb5000

EDUCATION

UNIVERSITAS BRAWIJAYA (2022 - CURRENT)
Bachelor Degree of Information Technology – GPA 3.67/4.00 | Concentration: Linguistics
- **Course Works:** Kecerdasan Buatan dan Pembelajaran Mesin, Data Sains, Implementasi dan Evaluasi Sistem Informasi, Administrasi Basis Data, Data Warehouse.

SMAIT AS-SYIFA BOARDING SCHOOL (2019 - 2022)
SCIENCE – GPA 87.5/100

SKILLS & TRAININGS

- Soft Skills: Decision-Making, Problem Analytic, Team Management, Effective Communication.
- Hard Skills: Google Colab, Jupyter Notebook, Python, Tensorflow, Pytorch, Market Analysis, Data Visualization (Google Looker), Business Development.
- Certification
  - Certificate of Completion: Data Analysis FULLSTACK INTENSIVE BOOTCAMP (MySkill)
  - Sertifikat Kompetensi Kelulusan - Belajar Pengembangan Machine Learning (Dicoding)
  - Data Classification and Summarization Using IBM Granite (IBM)
  - Sertifikat Kompetensi Kelulusan - Belajar Analisis Data dengan Python (Dicoding)
  - Sertifikat Kompetensi Kelulusan - Dasar Visualisasi Data (Dicoding)