ALIF WAHYU SYAHNANDA

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SUMMARY

Dedicated and result-driven Data Enthusiast with blend of Energy Engineering background and experience in HSE-Sustainability professional for about 2 years with 20,000+ employee manufacturing industry. Passion in problem solving is driven by a commitment to data-driven sustainability. Proven establish and led major digital transformation reporting project by managed and analyzed 5,000+ data/month, reduced workplace accidents by 25% annually. Expanded my expertise in data science and analytics through various analysis and predictive modeling projects at Purwadhika Digital Technology School. One of projects successfully streamlined retention and acquisition costs by 69.8% by implementing Machine Learning Model to predict customer churn. Blending of engineering knowledge, analytical skills, and a data-driven mindset allows me to approach challenges creatively and effectively. Thrive on continual growth with strong work ethic and commitment.

PROJECTS

E-Commerce Customer Churn Analysis & Predictive Modeling Classification Approach | Deck | Source Code

- Successfully streamlined retention and acquisition costs by 69.8% by implementing Machine Learning to predict customer churn
- Analyze the effect of customer characteristics and habits data on churn

Used Car Prices in Saudi Arabia Analysis & Predictive Modeling Regression Approach | Deck | Source Code

- Successfully create XGBoost model for predicting used car prices in Saudi Arabia with R^2 0.8,MAE 15767, RMSE 31338, and MAPE 1.2%.
- ML (Machine Learning) can be used by used car sales websites to help visitors estimate the selling/buying price of cars

Supermarket Customer Data Analysis Using RFM (Recency, Frequency, Monetery) Method | Deck | Source Code

- Enhancing Promotion: Analysis of Supermarket Customers Behavior using RFM (Recency, Frequency & Monetary) Method by segmenting 80% of customer that 'Need Attention' and 'Promising Customers'
- Focusing target 'Need Attention' customers with [win-back] campaigns and Key Personalization Promotion

Clustering of countries in crisis for international using KMEANS Unsupervised Learning | Deck | Source Code

- Successfully gave the best cluster for \$10 million aid to the 5 most crisis countries based on the features and cluster created
- Using KMEANS Clustering to get strategic and effective decision-making

SYNERE Start-up (Digital Energy Audit Platform & Electrical Planning Solution) | Deck | Research | Prototype

- Initiated an application and website product to solve the high electricity consumption expenditure of industry and housing with an offer to reduce costs by 65.4%. Conducted market research of PLN customers with the result that 250.000+ customers experienced a 200% increase in electricity costs
- Create business strategies using BMC (Business Model Canvas) to obtain product feasibility in business and operational implementation structures

SKILLS

Technical Skills: Python, SQL, R, Tableau, Microsoft Office, Google Suites, Looker Studio, Google Analytics, Power BI, Visio, Miro, Data Analytics, Scikit-learn, Canva, Predictive Modeling, Time Series Analysis, RFM Analysis, Product Research, Design Thinking, Jira. **Soft Skills:** Analytical Thinking, Problem Solving, Collaborative, Project Management, Product Management, Data Story Telling, Public Speaking, People Management, Adaptability, Critical Thinking, Agile, Conflict Management, Leadership, GDPR Mindset. **Languages:** Bahasa Indonesia (Native), English (Advanced), Arabic (Elementary), ETOEFL (Score: 573)

EDUCATION

Purwadhika Digital Technology School

Data Science & Machine Learning Bootcamp

 $Jan\ 2024-Present$

Committed 13 weeks on intense program that full of practical assignments and projects to refine data science & machine learning skills which taught by leading industry practitioners from South East Asia. Several Projects and curriculum that I did:

- SQL (Data Query, Data Manipulation, Data Definition, Data Analysis), Python Programming Language (Data Analysis, Machine Learning (Modeling Supervised Learning & Unsupervised Learning) & Data Visualization), Tableau (Data Visualization, Data Story Telling & Dashboard).
- Projects from Business Problem: Customer Analysis (RFM & Cohort Method), Business Analysis, Product Analysis, Scikit-learn implementation, Market Research Analysis & Predictive Modeling (Regression & Classification Approach)

Politeknik Elektronika Negeri Surabaya

Jul 2017 - Jul 2021

Bachelor of Applied Engineering (GPA: 3.32/4.0) | Credential | Thesis

Undergraduate Thesis: "Design of Steam Power Plant Condenser Machine Maintenance Using RCM (Reliability Centered Maintenance)
Methods with RCPS Implementation"

PROFESSIONAL EXPERIENCE

PT. MUIS Dikakarya – General Contractor

Jan 2024 - Jun 2024

Project Assistant

- Supervise and analysis project requirements by the contract and supporting the coordination and management of projects
- Managed stakeholders regarding project milestones, needs and goals. Create report and analysis on project and procurement

Sustainability Development Engineer & HSE Officer

- Led and enhanced an 80% Retrofit Machine Project, significantly improving machine safety performance and reducing risk severity and frequency from High to Low
- Developed and analyzed comprehensive Machine Safety Programs, including machine guarding, safe machine operation, pressure vessels, and laser safety, through periodic inspections, procedure reviews, and HIRARC assessments
- Conducted Analysis Machine Risk Assessments in alignment with ISO12100, achieved 100% safe machine target. Also managed Fire Safety Management (FSM) and Emergency Response Plan (ERP), including fire safety inspections, chemical inventory reviews & emergency drill
- Monitored and Conduct Analysis Safety, Health, Environment & Energy (HSEE) performance in machinery processes using Excel and ENABLON (Risk Management System). Supported accident investigations, developed risk management practices, and resolved HSEE issues through continuous improvement and maintain Behavior-Based Safety (BBS) initiatives

PENS Sky Venture – Tech Startup Incubator

Aug 2020 - Oct 2020

Product and Business Management (Internship) | Credential

- Conducted market research and analysis using survey data focused in Surabaya, Gresik, and Sidoarjo to gather feedback from PLN
 customers for solution conceptualization using Design Thinking and Conducted elevator pitch to stakeholders
- Created wireframe for product landing page and mobile app UI/UX using Figma and pitch deck to pull in investment

WORKSHOP & CERTIFICATION

Data Science Introduction – Purwadhika Digital Technology School

August 2024 - No Expiry Date | Link

• **Python Data Science** – Sanbercode

January 2024 - No Expiry Date | Link

• Google Analytics for Beginners – Google Academy

Nov 2023 - Nov 2026 | Link

• **Product Management** – Apiary Academy

March 2024 - No Expiry Date | Link

• Intro to Data Analytics – RevoU

April 2023 - No Expiry Date | Link

• **Project Management** – Teknokrat Muda Indonesia

April 2023 - No Expiry Date | Link

• OHS Management System Auditor (Auditor SMK3) – Kementerian Ketenagakerjaan RI

April 2023 - No Expiry Date | Link

• General OHS Expert (Ahli K3 Umum) – Kementerian Ketenagakerjaan RI

April 2023 - No Expiry Date | Link

ACTIVITIES & ORGANIZATION EXPERIENCE

Energy Student Association

Head of Entrepreneurship Department (2019 – 2020) | Credential

- · Responsible for all work programs, agendas, and members for the smooth running of all work programs and agendas
- Planning profit-increase schemes for organization and managing org. fiscal power

Staff of Entrepreneurship Department (2018 – 2019)

- Responsible for implementing entrepreneurial work programs that focus on product sales, charity, & entrepreneurship event
- Conducted sales recapitulation, monitor product, & operational sales

Energy in Challenge 2019 (Java - Bali)

Chief Executive of Event and Organizer (2018 – 2019) | Credential

- Successfully organized the program study biggest event that participated by 500+ college and school students across Java-Bali
- Led 70 people from all division to organize and operate the events
- Organized and conducted cross-functional meetings to make alignment for the event

ACHIEVEMENTS

International Electronics Symposium (IES) 2021 (September 29th – 30th 2021) | Publication

International Level

- Thesis research qualified for international publication at IEEE Xplore
- Presenting research on conference that held at the Sheraton Hotel Surabaya in English setting.