



Henry Samuel Manurung

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SUMMARY

Highly analytical and innovative Data Scientist with extensive experience in building predictive models, data mining, and machine learning algorithms to solve challenging business problems. Skilled in leveraging Python, TensorFlow, and machine learning libraries to uncover insights, predict trends, and inform business strategies. Proven track record in deploying data-driven solutions that contribute to strategic decision-making and operational improvements.

WORK EXPERIENCE

DA Technology

Karawang

Design Engineer – Vision (비전) Team Leader

Aug 2023 – Present

- Spearheaded the Vision team, focusing on analyzing defects in battery cell production using Computer Vision and devising strategies to enhance product quality significantly.
- Innovatively automated the analysis of multiple data files by developing a Python script, streamlining the process of filtering and copying files, which significantly boosted operational efficiency (from 25 min to less than a minute).
- Engineered 60+ design modifications using Autodesk Inventor, leading to a marked improvement in product performance and quality standards.
- Developed a Visual Basic macro for Excel, automating the data filtering process and facilitating precise CPK machinery calculations, enhancing data-driven decision-making.
- Directed ETL processes to transform raw data from factory machinery into actionable insights, driving continuous process improvements.

Shopee

Jakarta

Business Development Analyst

Feb 2022 – Aug 2023

- Developed personalized tracker to monitor shops managed which significantly boosted operational efficiency.
- Conducted deep dive analyses of advertising campaigns, resulting in optimized strategies for maximum ROI.
- Championed the use of analytical tools for data collection and analysis, delivering actionable insights to enhance ad campaign effectiveness and achieve business goals.
- Monitored market trends and competitive landscape to identify opportunities and recommend strategies to enhance advertising efforts.
- Implemented A/B testing methodologies to optimize ad copy, visuals, and landing pages, resulting in increased click-through rates and conversions.
- Delivered outstanding results, generating over \$600,000 USD in company revenue, surpassing the target by 25%.
- Acted as a live speaker in webinars, effectively communicating product features to over 2000+ sellers and enhancing user experience.
- Collaborated closely with Product Managers to resolve known issues, contributing to a seamless user experiences, using JIRA.

HPI-Agro (PT Muria Sumba Manis)

Boiler & Power Plant Staff

Sumba

Oct 2020 – Jan 2022

- Supervise teams for daily operations of the Power Plant, ensuring efficiency and sustainability.
- Designed the Waste Water Treatment Plant (WWTP) reservoirs using AutoCAD, improving environmental sustainability and operational efficiency.

EDUCATION

Bandung Institute of Technology (ITB)

Bachelor of Science in Mechanical Engineering

Bandung, West Java

Aug 2015 – Jan 2020

Final Project : Bandung Municipal Solid Waste Combustion Simulation on Small Incinerator using Flic and Fluent

Mechanical Project : Led a collaborative team of three members on a significant mechanical project, designing and assembling the innovative '2-in-1 Vacuum Dryer.'

Project Showcase : Showcased the '2-in-1 Vacuum Dryer' at the prestigious Mechanical Exhibition in 2019, demonstrating innovative engineering solutions to a wide audience.

PERSONAL PROJECT

Data-Driven Analysis of Football Players' Performance

- **Tools:** Python (Pandas, Seaborn, NumPy, Bokeh), Scikit-learn
- **Summary:** Engineered a data pipeline to analyze and visualize soccer players' performances from tournament data. Applied statistical techniques for data normalization, scaling, and interactive visualization to identify top performers. Enhanced decision-making for team composition with actionable insights.
- **Streamlined data preprocessing** and analysis workflow, reducing analysis time.
- **Implemented interactive dashboards** for intuitive exploration of players' statistics.
- **Contributed to data-driven decision-making** in player selection and team strategy.
- **GitHub Repository:** [click here](#)

Covid-19 World Distribution Map

- **Description:** Designed and developed a Covid-19 World Distribution Map using Tableau to visualize global pandemic data. Created interactive dashboards featuring new cases for each country, new case trends over time, and total cases per continent.
- **Utilized data visualization** techniques to present complex information in an accessible manner, aiding in understanding and analysis.
- **Project Link :** [click here](#)

CERTIFICATION

- Python – Data Science
- DeepLearning.AI TensorFlow Developer
- Business Intelligence
- Introduction to Product Management

SKILLS

Computer Skills: Python, TensorFlow, Tableau, MySQL, JIRA, Visual Basic for Applications (VBA).

Personal Skills: Analytical Thinking, Problem Solving, Deep Neural Network, Convolutional Neural Network, Recurrent Neural Network, Natural Language Processing, Machine Learning, Leadership, Data Wrangling, Exploratory Data Analysis, Market Analysis, Collaboration, Innovation, Data-Driven Decision Making, Project Management.