

Nazeerul Helmi Abd Halim

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[Portfolio](#) • [GitHub](#) • [LinkedIn](#)

Result-oriented **Production Engineer** with 3 years of working experience in the manufacturing industry who makes data-driven decisions. Experienced in data analysis, troubleshooting, and communicating with cross-functional teams to address quality issues and implement preventive and/or corrective actions. Recently obtained **Data Engineering Associate** certification hosted by Fusionex to further be equipped with necessary skills.

Skills

- **Programming:** Python (Pandas, NumPy, Matplotlib, Seaborn), SQL
- **Visualization:** Microsoft Excel, Microsoft Power BI, Tableau
- **Language:** Fluent in Bahasa Melayu and English
- **Technical:** Analytical, Data Analysis, Data Cleaning, Data Modeling, Data Visualization, Problem Solving, Root Cause Analysis

Personal Project

Bank Customer Churn Analysis

[\[link\]](#)

Tools used: Microsoft Power BI

- Performed data preparation which include cleaning, formatting, and transforming on the data source using Power Query
- Used DAX function as a tool for data analysis purpose of analyzing churn rate of the customers.
- Build a dashboard to share insights on the customers churn rate based on several metrics.

Covid-19 World Data Exploration

[\[link\]](#)

Tools used: Microsoft Excel, SQL (Microsoft SQL Server)

- Performed exploratory data analysis (EDA) to gain insights on the covid-19 cases around the world, but especially in Malaysia.
- Using SQL queries to answer some of the questions related to covid-19 through the numbers.
- Technique involved while doing the EDA; converting data type, aggregate function, subquery, JOINS, CTE.

Netflix's Title Trend Analysis

[\[link\]](#)

Tools used: Microsoft Excel, Tableau

- Performed data validation to ensure the data is consistent, accurate, and free of errors.
- Gained insights on movies and tv shows added to Netflix up until the year of 2019.
- Through data visualization, discovered the trends of increasing quantity of movies and tv shows added as the year passes by.

Survey Taker Job Insights

[\[link\]](#)

Tools used: Microsoft Excel, Microsoft Power BI

- Performed data cleaning and transforming process including removing duplicates, outliers, and null values using Power Query.
- Created a dashboard for data visualization and gained insights on several KPIs related to the topic.

Twitter Sentiment Polarity Analysis

[\[link\]](#)

Tools used: Pyspark, Python, Hive, Fusionex Giant

- Performed ETL process and implemented data pipelining process to transform the data for analysis using Pyspark and Python.
- Populate the sentiment of tweets on Starbucks using TextBlob for sentiment polarity.
- Performed data cleaning of the data prior to creating a dashboard of the data using GIANT for data analysis and data visualization purposes.

Web Scraping on IMDB Top 250 Movies

[\[link\]](#)

Tools used: Python

- Extract Top 250 Movies list from the IMDB website's page using 'BeautifulSoup' and 'requests' libraries before transferring it into an Excel file.

Work Experience

Production Engineer

Seremban, Negeri Sembilan

Goodgloves Industries Sdn Bhd

Dec 2021 – Present

- Performed analysis to troubleshoot quality issue resulting in high Lot Acceptance Rate of 97%.
- Collaborated with other departments for machines' capabilities and process parameters for process validation.
- Improved production efficiency by analyzing and planning workflow, space requirements, and equipment layout.
- Coordinated with other departments on related issues to maintain OEE above 90%.

Production Engineer

Sitiawan, Perak

Dindings Poultry Processing Sdn Bhd

Apr 2021 – Oct 2021

- Collected data for analysis, and successfully improved one of the KPI's performance by 20%.
- Implemented Predictive Maintenance for consumable spare parts based on machine manuals and previous changing records and managed to achieve 90% of the machine's performance.
- Worked with Engineering Department in improving overall OEE of production line from 72% to 80% by implementing the 8 pillars of Total Productive Maintenance Program (TPM).

Production Engineer

Bestari Jaya, Selangor

Hartalega Sdn Bhd

Dec 2019 – Mar 2021

- Improved data collection and presentation of a KPI for more efficient data preparation in preparing reports.
- Analyzed available data for factors related to the gloves weight and successfully achieved targeted glove overweight %.
- Presented daily and weekly glove overweight and rejection KPIs reports to the Production Manager.

Education

Fusionex Data Engineering Associate Program

Fusionex Group

Aug 2022 – Oct 2022

- Introduced and learned how to prepare data and create a dashboard for data visualization using Fusionex GIANT, a data visualization tools by Fusionex.
- Exposure to variables, functions, libraries e.g., matplotlib, and structures in Python while writing some working examples using Jupyter Notebook.
- Gained insight into Big Data and Data Engineering fundamentals, RDBMS, ETL/ELT, HDFS, Sqoop, Hive, Impala, Pyspark, PostgreSQL, Python, Fusionex Giant, etc.

Bachelor of Science in Mechanical Engineering

Salt Lake City, Utah, U.S.A

University of Utah

Aug 2015 – May 2019

- CGPA 3.569 / 4.0
- Deans' List for 5 out of 8 semesters

Certification

- Certification in Tableau Nov 2022
 - Introduction to Tableau by 365 Data Science [\[link\]](#)
- Certification in Power Bi Nov 2022
 - Power BI Fundamentals by DataCamp [\[link\]](#)
- Fusionex Data Engineering Associate Program by Fusionex Aug 2022 - Oct 2022
 - Fusionex Certified Data Associate [\[link\]](#)
- Certification in SQL Oct 2022
 - SQL Fundamentals by DataCamp [\[link\]](#)
- Certification in Python Jul 2022
 - Introduction to Python by DataCamp [\[link\]](#)
 - Intermediate Python by DataCamp [\[link\]](#)