# Dirga Halim Susilo

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Based in Medan with expertise in data analysis, machine learning, and visualization using Python, SQL, Excel, and Power BI. Experienced in various analytical projects, I focus on transforming complex data into insights that support business decision-making.

## WORK EXPERIENCE

**Freelance Data Analyst**                                            **Jul 2024 - Present**
**Remote/Various Clients**                                                      **Indonesia**
- Collaborate directly with various clients (or on independent projects) to understand business needs and translate them into data analysis questions.
- Execute end-to-end data analysis cycles: from data collection, cleaning, and transformation to statistical analysis and data visualization.
- Design and build interactive dashboards using Tableau, Power BI, or Looker Studio (client-dependent) to monitor KPIs and facilitate client insight comprehension.
- Present findings and deliver data-driven strategic recommendations to support client decision-making (e.g., marketing, operational, or sales optimization).

**Data Scientist (Intern)**                                            **Feb 2023 - Jul 2023**
**PT eBdesk Teknologi**                                      **Tangerang Selatan, Indonesia**
- Assisted the data scientist team with election data research, participating in data cleaning and simple feature engineering for model preparation.
- Supported dashboard visualization by collecting relevant data and drafting charts to present preliminary findings.
- Participated in the machine learning development lifecycle, primarily assisting with data pre-processing and experimenting with model parameter tuning under senior mentorship.

**HR Data Analyst (Intern)**                                           **Dec 2020 - Feb 2021**
**Santara**                                                          **Yogyakarta, Indonesia**
- Performed daily data entry and validation (cleaning) of employee data (e.g., attendance, leave, personal data) within the HRIS to ensure data accuracy and completeness.
- Assisted the HR Manager by exporting employee performance data from the system and compiling it into Excel reports (including pivot tables) for the team's strategic analysis.
- Participated in the UX analysis of internal applications by collecting and categorizing user feedback to help the team identify key pain points.

## EDUCATION

**Bachelor of Data Science**                                           **Sep 2020 - Aug 2024**
Universitas Teknologi Yogyakarta                                              **GPA:** 3.77
1. **Lecturer Assistant (Sept 2022 - Jan 2023)**
   Lecturing class, seminars, training and provide university guidance for students. Assigned to examined student projects (midterm and final), practicum and laboratory research activities.
2. **Research on CNN-based Web Sign Language Translator (2024)**
   Developed and evaluated a Convolutional Neural Network (CNN) for recognizing sign language alphabet (MNIST dataset), achieving 100% accuracy on most letters, with identified challenges on 'J' and 'Z'. Proposed enhancements using motion detection and database integration for real-time applications.

## SKILLS

**Data Analysis, Data Science, Programming, Tools & Technologies, Soft Skills:** Python, SQL, Excel, Power BI, Data Visualization, Statistics, Machine Learning, Pandas, NumPy, Scikit-learn, TensorFlow, Data Cleaning, Data Wrangling, Predictive Modeling, Business Intelligence, Big Data Analytics, Communication Skills, Problem Solving, Critical Thinking

## ORGANIZATIONAL & VOLUNTEER EXPERIENCE

**Head of Research Chapter Yogyakarta**                                **Aug 2022 - Jan 2023**
**Data Science Indonesia**                                           **Yogyakarta, Indonesia**
1. Directed data science training and research through seminar programs by collaborating with expert individuals, utilizing the latest tools and technologies, including Looker Studio.
2. Managed the entire Yogyakarta Chapter, overseeing data literacy and visualization learning through findings, research, and media exploration, provided report and recommendations to enhance data-driven decision-making.

## LANGUAGES

**Indonesia** (Native proficiency) • **English** (Professional working proficiency)

## CERTIFICATIONS

**SQL (Advanced) Certificate (Credential ID: 47468dc16b59)** ⧉ by **HackerRank**          **Dec 2023**

**TensorFlow for Deep Learning Bootcamp (Credential ID: UC-2e8d3c48-bd8f-40e7-a93c-965a6034627b)** ⧉ by **Zero To Mastery** Aug 2023
**Academy on Udemy**
**Google Data Analytics Certificate (Credential ID: QAJBXXLX4PA7)** ⧉ by **Grow with Google on Coursera**                                        **Jan 2023**
**Complete A.I. & Machine Learning, Data Science Bootcamp (Credential ID: UC-c410785e-52f9-4f50-92ef-93566a29cea5)** ⧉ by  **Aug 2022**
**Zero To Mastery Academy on Udemy**
**Data Analyst Bootcamp (Credential ID: UC-c5bfeb2e-13f6-428a-b5cb-82518e4b48f6)** ⧉ by **365 Careers on Udemy**          **May 2022**
**ASEAN Data Science Explorers** ⧉ by **ASEAN Foundation**                                        **Jan 2022**

## PROJECTS

**HR Analytics Dashboard (Excel Project)** ⧉                                        **Aug 2025 - Aug 2025**
Designed and developed an interactive HR Analytics Dashboard using Excel to monitor key workforce metrics including attrition rate, employee demographics, job satisfaction rating, and departmental turnover. Integrated a filter panel for dynamic data segmentation by department, education level, and job role, enabling HR teams to conduct targeted analysis. The dashboard provided actionable insights that reduced HR report generation time by 40% and improved decision-making efficiency in employee retention strategies.