

# Silvio Christian, Joe

Data Scientist | Specializing in NLP & Tabular Data Analysis

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## Professional Summary

Informatics Engineering undergraduate at Universitas Dian Nuswantoro with a sharp focus on **Natural Language Processing (NLP)** and **Tabular Data Analysis**. Passionate about extracting value from both unstructured text and structured datasets through rigorous preprocessing, model fine-tuning, and deployment. Proven ability to build end-to-end solutions—from training predictive models (like Stunting prediction) to deploying them via APIs. Certified by Oracle and IBM (Coursera) in AI and Machine Learning foundations, seeking to leverage these skills in a professional Data Science role.

## Education

- Aug 2023 – **Bachelor of Informatics Engineering**, Universitas Dian Nuswantoro (UDINUS), Semarang  
Present Focusing on Data Science, specifically NLP and Tabular Data processing.
- Jul 2020 – **High School Diploma, Science**, SMA Kristen YSKI, Semarang  
May 2023

## Technical Skills

- Data Science **NLP, Tabular Data Analysis**, Text Mining, Sentiment Analysis  
Machine Learning Regression, Classification, Model Fine-tuning, Handling Class Imbalance  
Engineering API Development (Stuntify), MLOps basics, Model Deployment  
Tools & Cloud Python, SQL, Git/GitHub, Oracle Cloud Infrastructure (OCI)  
Soft Skills Analytical Thinking, Problem Solving, Technical Documentation

## Key Projects

- 2025 **Stunting Prediction & Stuntify API**, Personal Project
  - Developed a robust machine learning model using tabular data to predict stunting risks in children.
  - Engineered "**Stuntify**", a deployable API wrapper for the model to enable real-time predictions.
  - Optimized recall and precision metrics to handle critical health data effectively.
- 2025 **Conversational AI Companion**, Personal Project
  - Designed an interactive conversational agent leveraging NLP techniques to simulate empathetic human-like dialogue.
  - Implemented advanced text processing pipelines to handle user inputs and generate context-aware responses.
- 2025 **Sentiment Analysis Project**, Personal Project
  - Analyzed unstructured textual data to classify public sentiment (positive, negative, neutral).
  - Utilized NLP libraries for tokenization, lemmatization, and feature extraction to gain actionable insights.

## Certifications

- 2025 **Oracle AI Vector Search Certified Professional**, Oracle  
Proficiency in modern vector search technologies for AI applications.
- 2025 **Supervised Machine Learning: Regression**, Coursera (IBM)  
Predictive modeling and continuous variable analysis.
- 2025 **Supervised Machine Learning: Classification**, Coursera (IBM)  
Categorical data prediction and handling class imbalances.

## Languages

Indonesian Native Speaker

English Professional Working Proficiency