



# Erwin Fernanda

## Geophysical Engineering

Place & Date of Birth : Sukoharjo, January 25<sup>th</sup> 1999 (23 years)  
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## EDUCATION

### University of Pertamina

Jakarta, Indonesia

Bachelor of Geophysics Engineering. GPA (3.88/4.00)

2017 - 2021

Thesis title: Landslide Vulnerability and Risk Mapping Using Machine Learning Algorithm with MALAVU (Machine Landslide Vulnerability): Study Case Jember, Regency, Indonesia

Honors: Cumlaude and Best Graduate Achievement with 30+ awards in national and international level

## EXPERIENCE

### Mentor Accelerated Program Machine Learning in Kampus Merdeka

Jakarta, Indonesia (Remote)

PT. Zona Edukasi Nusantara (ZENIUS)

February 2022 – August 2022

- Lead & organize 36 students for maintenance progress in program Kampus Merdeka batch 2 and 3.
- Guide 36 students to understand data science and machine learning concepts from basic to advance.
- Help 2 expert data scientists with the maintenance of data science and machine learning material.

### Content Technology Developer

Jakarta, Indonesia (On-site and Remote)

PT. Zona Edukasi Nusantara (ZENIUS)

February 2021 – August 2022

- Created +300 file JSON using Clojure programming for mathematics questions in Zenius App.
- Finished +160 problem-solving Clojure in <https://foreprogen.zeniusnet.com/>.
- Led & organized 6 people for the development of mathematics functions using Clojure.

### IT Developer

Jakarta, Indonesia (Remote)

PT. MedCo Energy Indonesia

April 2022

- Designed machine learning for an early warning system in gas compressor failure.
- Analyzed and created visualization data to understand the user interface app.
- Created python code script for building user interface app.

### Mentor Python Programming

Jakarta, Indonesia (Remote)

Senopati Education Center (SEC)

August 2019 – February 2021

- Designed curriculum python for game developer and teach around 5 children.
- Designed curriculum python for data scientist and teach around people.
- Received the title best teacher with the most students teach.

## LEADERSHIP AND ACTIVITIES

### Society of Petrophysicists and Well Log Analysts (SPWLA UP SC)

Jakarta, Indonesia

#### Head of Education and Training

April 2020 – April 2021

- Coordinated and supervised the 5 activities for education and training in well log and petrophysics with invited national and international speaker.
- Achievement: Invited 3 speaker national and international for event P3C (Petro Python Programming Course with theme “Machine Learning Applications in Reservoirs Simulation and Well Log Analysis”).

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## SKILLS AND INTERESTS

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**Technical** : Python, SQL, HTML, GitHub, and Clojure Programming  
**Language** : English (Intermediate), Indonesian (Native), Turkish (Elementary), and Arabic (Elementary)  
**Laboratory** : Streamlit, Tensorflow, Keras, PyCharm, Pandas, Jupyter Notebook, Anaconda  
**Interests** : Machine Learning, Data Science, Geophysics, Mathematics, Statistics

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## PROJECTS AND AWARDS

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**Champion of Student Paper Competition in SPWLA Symposium, Houston, USA** Online, Houston  
**International Paper Competition** May 2021  
In this competition, our team has entitled paper “Leveraging Artificial Neural Network, Support Vector Machine and Random Forest Algorithms for Fracture Porosity Prediction”.

**Champion of Student Programming Competition in 45<sup>th</sup> HAGI 2020** Online, HAGI  
**National Programming Competition** October 2020  
In this competition, our team has entitled project “Liquefaction Susceptibility Map Using Machine Learning - Logistic Distribution with LPSP (Liquefaction Problem Solving Python) Software: A Case Study in Padang City and Surroundings Area, West Sumatera”.

**1<sup>st</sup> Runner up of Statistics Essay Competition in STARIA DATA** Online, Kemenristekdikti Indonesia  
**National Essay Competition** October 2020  
In this competition, our team has entitled paper “Prototype Glass eye CDM (COVID Data Management) Using Artificial Intelligence Statistics Based on Python and Sensorics: As a Tools Data Searching and Prevention Efforts Spreading COVID-19 at Indonesia”.

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## PUBLICATION PAPER AND JOURNAL

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**Early Result for Microtremor Characteristic Observation in Merapi and Merbabu**  
IOP Conference Series: Earth and Environmental Science, Volume 873, The 3rd Southeast Asian Conference on Geophysics 3-5 November 2020, Bandung, Indonesia (Virtual) · Nov 3, 2021.

**Landsat and Gravity Data Processing as an Indication of Geothermal Geothermally in the Rana Kulan Area, NTT**  
Jurnal Geofisika Eksplorasi (JGE) Volume 7, No. 2 Hal: 41-51 · Mar 7, 2021.

**Optimization of PSP-Map Design (Hot Water Surface Pipe) Using Software Pod 1.0 (Phyton Optimization Design) as an Effort to Make Sustainable Infrastructure in Cisolok Area**  
Jurnal Geosaintek ITS · Nov 15, 2019.

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## LICENSES AND CERTIFICATION

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**FGA (Fresh Graduate Academy) Machine Learning Developer** Online  
**Kominfo Indonesia** Oktober 2022 – Now  
Finished 2 courses like: Belajar Machine Learning untuk pemula, Belajar Pengembangan Machine Learning.

**Machine Learning and Python Courses** Online  
**Kaggle** February 2022 - Now  
Finished 5 courses like: Intro to Deep Learning, Machine Learning Explainability, Intermediate Machine Learning, Intro to Machine Learning, Python.

**Data Science and Machine Learning Courses** Online  
**DQLab** April 2020 - Now  
Finished 25 courses in several major like Machine Learning (2 courses), Data Analyst and Visualization (5 courses), Data Science (10 courses), Fundamental SQL (6 courses), and Business Understanding based on real project (2 courses).