

YOHANES DENY NOVANDIAN

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Semarang City, Central Java, Indonesia

I am a passionate third-year undergraduate student of Informatics Engineering at Dian Nuswantoro University, Semarang. I lead the "Bengkel Koding" organization under the Informatics program, where I manage software development (Learning Management System) and data science projects (research programs with faculty members) and assist in coordinating project finalizations. I have expertise in creating AI models using various frameworks such as TensorFlow and PyTorch, across different AI branches including Machine Learning, Neural Networks, and Computer Vision. I have participated in various research projects, including medical research, natural language processing (NLP), and sentiment analysis

Education Level

Dian Nuswantoro University - Semarang, Indonesia

Aug 2021 - Mar 2025 (Expected)

Bachelor Degree in Informatics Engineering, 3.95/4.00

- Become a part of "Excellence Class Batch 2021", which is a prestigious initiative aimed at bringing together the most accomplished students within the Informatics Engineering study program.
- Research Area of Interest: Machine Learning, Natural Language Processing, Deep Learning, Artificial Intelligence, and Data Science.
- Become a mentor of data science course for final year student in MBKM internal
- Courses Majors Taken: Fundamental of computing (A), Algorithm and Programming (A), Data structure (A), Automata and theory language (A), Object-oriented programming (A), Organization and architecture computer (AB), Databases (A), Logic for informatics (A), Computer Networks (A), Digital Image Processing (A), Databases system (A), Operating system (A), Artificial Intelligence (A), Data Mining (A), Software projects (A), Digital Logic Circuits (A), Calculus 1 (A), Web Based Programming (AB), Mobile Programming (A), Introduction to Information Technology (A), Cryptography (A), System and Cyber Security (A), Advance Web Programming (A), Basic programming (AB), Software Engineering (AB).

Project Experiences

Classification NHL using Image Augmentation Preprocessing

Nov 2023

Developer

At Intelligent Distributed Surveillance and Security Dian Nuswantoro University

- Lymphoma Dataset Preprocessing with Augmentasi using Deep Learning (TensorFlow) - DenseNet 169
- Link Github : <https://github.com/Newbornprograming/FineTuningDenseNetImageAugmentation>

Classification NHL using Image Patching and Voting Preprocessing

Nov 2023

Developer

At Intelligent Distributed Surveillance and Security Dian Nuswantoro University

- Lymphoma Dataset Preprocessing with 6-Part Patching and Voting using Deep Learning (TensorFlow) - DenseNet 169
- Link Github : <https://github.com/Newbornprograming/FineTuningDenseNetImagePatching>

Natural Language Processing Bullying (On Going)

Juni 2024

Developer

At Dian Nuswantoro University

- Collecting Dataset using scrapping dataset from social media (Text, Audio, Image/Video)
 - Using Classical(KNN, Random Forest), Ensemble(CNN and Patching Voting), Bert (Transformer)
- Link Github : https://github.com/Newbornprograming/Classification_Bullying_CNN

Sentimen Analysis Multilabel Emotion

Mei 2024

Developer

At Dian Nuswantoro University

- Research about Sentimen Analysis with Classical Model (KNN, Naïve Bayes, RandomForest)
- Link Github : <https://github.com/Newbornprograming/SentimenAnalysisMultiilabelEmotion>

Work Experiences

PT. Bringin Inti Teknologi (PT BRIIT) - Semarang , Indonesia

Sep 2019 – Sep 2022

IT Support

At BRIIT there is a Program called "BRIBOX".

- Intalation Network, Electrical Troubleshooting, Network Backup, Instalation UPS,
- Router Configuration · software BRI Troubleshooting
- Best Technician in Jakarta 3 Area for One Year
- Mentoring junior IT support for the Jakarta 3 area, especially in Banten.

Dian Nuswantoro University - Semarang , Indonesia

Sep 2023 - Present

Team Leader, Teaching and Mentor Assitant

At Dian Nuswantoro University, there is a program in the Bachelor of Computer Science Study Program called "Bengkel Koding". This program aims to monitor and help students who are learning / having problems about digital technology.

- I Organize, lead, and execute all activities of Bengkel Koding (Bengkel Koding courses, career guidance courses) and projects (research and software development)
- I become a mentor for any students that take Bengkel Koding as course. My task include assist them on programming. I also give them assignments, quizzes, and projects to evaluate their learning progress.
- I created a Data Science module, Capstone Project which is now available on bengkelkoding.dinus.ac.id.
- Speaker Socialization Material on Supercomputer Research in Universitas Dian Nuswantoro Server

PT Revolusi Citra Edukasi - Jakarta, Indonesia

Feb 2024 – Juni 2024

Project-Based Studi Independen: Data Analytic and Software Development

I work as Data Analytc and Software developer. My role is learning about data science and complete weekly assignments. I also complete final Capstone Project.

- Complete task about Analytic Dataset "Superstore Giant Store"
- Complete task Modeling (Decision Tree) and Visualisasi with Looker Studio
- Complete Capstone Project Software Delovelment with React and Get a Certificate of Competency

Apple Developer Academy - Surabaya, Indonsia

Apr 2024 - May 2024

Product Designer and IOS Developer at Apple Foundation 2024 Batch 1

Apple foundation is one of the small programs of apple academy for 1 month. Activities at the apple foundation start with problem statement, investigation, and solution in the form of a prototype and simple iOS application done in groups.

- Using CBL framework to develop a IOS application
- Learning about Figma and creating a design application in Figma
- Learning about Swift and SwiftUI to develop our IOS application
- Working as a team to complete a project

Organizational Experience

Google Developer Student Clubs Dian ITB University - Bandung , Indonesia

Nov 2021–Nov 2023

Member (Remote)

The Google Development Student Club is an official community from Google for students with an interest in the world of technology and programming is within the scope of the university.

- Become one of Web division. Member responsible for coding and developing software in the team.
- Working as a team to complete a project
- Member responsible for coding and developing software in the team.

DREAMS (Dinus Research Group for AI in Medical Science) - Semarang , Indonesia

Nov 2023 - Present

Member

DREAMS is a research activity at Universitas Dian Nuswantoro involving both students, lecturers, and professors, focusing on the health to create a model that is both computationally efficient and highly accurate using several algorithms in Machine Learning or Deep Learning.

- I am doing research and develop a model capable of detecting Lymphoma cancer through photos using Convolutional Neural Networks using both Tensorflow and Pytorch Framework. This project leads me to have opportunity to use Universitas Dian Nuswantoro Super Computer and familiarize using Ubuntu CLI terminal I become a volunteer in community service, promoted UDINUS software application designed to prevent and detect various risks of cancer, named Oncodoc.

Skills, Achievements & Other Experience

- **Hard Skills:** C++ - Basic to Intermediate Programming Concept | Python - Data Science, Artificial Intelligence, and Python-based Application Development, Tensorflow, Pytorch, Computer Vision, HuggingFace | Javascript and PHP - Web Development | Java - Desktop and Mobile Development
- **Soft Skills:** Manage Team/Organization, Teamworking, Problem Solving, Communication, Public Speaking, Critical Thinking, Time Management, Adaptability, Quick Learning, Stress Management, etc.
- **Certificate** (2024): Associate Data Scientist by BNSP
- **Certificate** (2023): Nvidia Getting Started with Deep Learning by Nvidia
- **Certificate** (2024): Apple Foundation @ UC by Apple Developer Academy
- **Certificate** (2024): iOS Developer by Dicoding Indonesia
- **Certificate** (2023): Nvidia Getting Started with Deep Learning by Nvidia
- **Certificate** (2024): Bengkel Koding by Dian Nuswantoro University
- **Certificate** (2024): Machine Learning Development by Dicoding Indonesia
- **Certificate** (2024): Basic Programming Using Python by Dicoding Indonesia
- **Certificate** (2024): Basic Data Visualization by Dicoding Indonesia
- **Certificate** (2024): Cloud AWS by Dicoding Indonesia
- **Certificate** (2024): UI/UX Design by Dicoding Indonesia
- **Projects** (2023): Parking Detection - IoT Computer Vision python project with automatic parking gate using face recognition
- **Projects** (2023): Heart Disease Penguin Classification - Web-based python project predict Heart Disease
- **Seminar Attend** (2023): Fine-Grained Text Sentiment Analysis
- **Seminar Attend** (2023): Theoretical Framework of Deep Learning