

TOMY

Jakarta, Indonesia | +62 813 1533 3567 | tomytjandra@gmail.com

[linkedin.com/in/tomytjandra](https://www.linkedin.com/in/tomytjandra) | linktr.ee/tomytjandra

Data science instructor with two years of experience teaching Python and R programming languages at Algoritma. Tomy has a solid educational background in Computer Science and Mathematics, which supports his deep understanding of Artificial Intelligence. Tomy is a detail-oriented, organized, and persistent person who believes that life is a non-stop learning journey and learning-by-teaching is the most effective method in the process.

EDUCATION

Bina Nusantara (BINUS) University

West Jakarta, Indonesia

Bachelor of Computer Science (S.Kom.) and Bachelor of Science (S.Si.) in Mathematics

Graduated Dec 2019

- Cumulative GPA: 3.96 / 4.00 - distinguished by *summa cum laude* and best graduate of the Computer Science & Mathematics study program in the 61st BINUS Graduation Ceremony
- Relevant Courses: Calculus, Applied Linear Algebra, Differential Equations, Numerical Methods, Mathematical Statistics, Database Systems, Artificial Intelligence, Computer Vision, Natural Language Processing

WORK EXPERIENCE

Algoritma Data Science School

South Jakarta, Indonesia

The following two descriptions apply to my entire tenure at Algoritma (data as of 31st Jan 2022):

- Lead Instructor: Deliver materials for 21 academies and 5 corporate classes (Bank Permata, BRI, and AdIns) with 270 hours of class and 705 students from a diverse range of age group, educational, and industrial backgrounds. The materials include data analytics, data visualization, and machine learning using Python and R.
- Teaching Assistant: Assist lead instructor in conducting conducive workshops and help students to solve technical problems with 645 hours of class.

Senior Data Science Instructor (Veteran)

Dec 2021 – present

- Project Buddy: Review and provide qualitative feedback to Data Science Trainee's projects and class delivery preparation.
- Hiring Manager: Interview potential trainees and interns in the recruitment process and develop a new framework to assess their technical and class delivery skills.
- Project Mentor: Guide corporate students to solve real business problems. Selected projects:
 - [Dec 2021] Incomplete Address Inquiry Mitigation using Text Classification and Geocoding
 - [Dec 2021] Time Series Forecasting of Card Redemption in Digital Computer Service Machine

Data Science Instructor

Jul 2020 – Nov 2021

- Picket Team: Responsible for answering data science-related questions via email and conducting one-on-one mentoring sessions for students. Successfully revamped the flow of mentoring session requests and reduced manual data entry burden.
- Ask Algo Maintainer: Initiatively compile, deploy, and maintain FAQ for technical questions.
 - askalgo.netlify.app using bookdown package in R
 - askalgo-py.netlify.app using Jupyter Book in Python
- Course Producer: Produced custom materials for in-house corporate training.
 - [Mar 2021] [AdIns](#): Loan Default Prediction using Tree-Based Models in Python
 - [Dec 2020] [Bank Permata](#): Customer Attrition Prediction using Tree-Based Models and Hierarchical Clustering of Customer Monthly Balance in R
- Competition Judge: Become representative to assess participants' project presentation objectively.
 - [Nov 2021] Bank Indonesia: Data Visualization using Shiny Dashboard
 - [Nov 2021] [National Data Summit 2021](#) by Telkom University Bandung
- Content Maker: Produced educational content for active students and alumni. Selected contents:
 - [Aug 2021] [Torch Handbook in Python and R](#)
 - [Jan 2021] [BRI Data Hackathon 2021 Workshop: Time Series Forecasting using Prophet](#)
 - [Nov 2020] [Survival Analysis using PySurvival: Predictive Maintenance](#)
 - [Nov 2020] [Time Series Clustering using Hierarchical-Based Method](#)

Data Science Trainee

Jan 2020 – Jul 2020

- Responsible for completing Algoritma Growth Program as part of competencies development. Selected projects:
 - [Jul 2020] [Suicide Statistics Shiny Dashboard](#)
 - [Jun 2020] [Song2Vec: Music Recommender](#)
 - [May 2020] [Casting Product Quality Inspection using Convolutional Neural Network](#)
 - [Apr 2020] [Understanding Word2Vec with Gensim and Elang](#) (Course Producer)
 - [Mar 2020] [Image Compression using K-Means Clustering and Principal Component Analysis in Python](#)
 - [Mar 2020] [Develop Python Package "elang" for Word Embedding](#)
 - [Feb 2020] [Text Mining for Indonesian Online News Articles](#)

Bank Central Asia (BCA)

Wintel Infrastructure Intern

Central Jakarta, Indonesia

Aug 2018 – Feb 2019

- Created a desktop application to implement Analytic Hierarchy Process (AHP) method using C#
- Built an interactive dashboard for hardware and software inventory tracking using Microsoft Power BI
- Scraped internal telephone directory website using Python Beautiful Soup

ORGANIZATIONAL EXPERIENCE

BINUS Student Learning Community (BSLC)

West Jakarta, Indonesia

Mentor Scholarship

Sep 2015 – Jun 2018

- Responsible for conducting peer-to-peer mentoring for Computer Science, Mathematics, and Statistics subjects.
- Consecutively became a mentor for 6 semesters and handled 5-6 mentees each semester.
- Awarded as "Best Mentor for Even Semester 2017/2018" by Student Advisory Center (SAC) BINUS University. Three out of five mentees were also awarded as the best mentee, which was evaluated by GPA increment, mentoring frequency, and class attendance.

Himpunan Mahasiswa Matematika (HIMMAT) BINUS University

West Jakarta, Indonesia

Treasurer

Jan 2016 – Dec 2016

- Responsible for cash inflow, outflow, monthly financial reports and served as the steering committee to monitor Education and Technology Division.
- Awarded as "Treasurer HIMMAT with Excellent Predicate" by Student Creativity and Development Center (SCDC) BINUS University.

Staff of Public Relation and Information

Jan 2015 – Dec 2015

- Content creator for LIMIT (HIMMAT's monthly magazine).
- Person-in-charge for teaching volunteer in Teach for Indonesia (TFI).
- Actively involved as an internal committee in 7 events held by HIMMAT.
- Awarded as "Best Overall Staff HIMMAT" by HIMMAT 2015 steering committee.

BINUS English Club (BNEC)

West Jakarta, Indonesia

Staff of Media Information and Technology

Jan 2015 – Feb 2016

- Editor-in-chief for SHOWCASE (BNEC quarterly magazine).
- Exposed to international events as a committee of the 2015 and 2016 Asian English Olympics (AEO).

RELEVANT ONLINE COURSES

Coursera

DeepLearning.AI Deep Learning Specialization (Credential ID: [KR84A9CP2V5L](#))

Mar 2021 – Jul 2021

- Completed five courses to understand theoretical concepts and train deep learning models using Python and TensorFlow.

DeepLearning.AI TensorFlow Developer (Credential ID: [ATA9DVCUDAGX](#))

Oct 2020 – Dec 2020

- Completed four courses to build various deep learning models using TensorFlow.

Machine Learning by Andrew Ng (Credential ID: [NNR2ZVARGESQ](#))

Oct 2019

- Completed a course to implement basic machine learning algorithms in Matlab/Octave.

DPhi

Machine Learning Advanced Bootcamp (Certificate of Excellence)

Dec 2020 – Jan 2021

- Ranked first on the [boot camp leaderboard](#) and listed as one of the [best model deployment and explainable AI notebooks](#).
- Created [Loan Approval Application](#) and [Explainable Heart Disease Classifier with SHAP](#) notebook as final project.

Udacity

Deep Learning Nanodegree Program (Credential ID: [KWSPQZWK](#))

Mar 2020 – Sep 2020

- One of top 1,600 performers who enrolled through the [Bertelsmann Technology Scholarship Program](#) – AI track.
- Completed six core curriculums on deep learning and finished [five deep learning projects](#) using PyTorch.

SKILLS

Languages: Indonesian (Native), English (Proficient), Korean (Basic)

Technical Skills and Programming Languages:

- Data collection using web scraping in **Python** (Beautiful Soup, PySelenium)
- Data querying using **SQL** (Data Manipulation Language and Data Definition Language)
- Data analysis in **Python** (Pandas, NumPy) and **R** (tidyverse: dplyr, stringr, tidyr, purrr)
- Data visualization in **Python** (Matplotlib, Seaborn, Plotly) and **R** (ggplot2, plotly, flexdashboard, shinydashboard)
- Machine learning in **Python** (scikit-learn, Statsmodels, Prophet, Gensim, PySurvival) and **R** (caret, randomForestSRC)
- Deep learning in **Python** (Keras TensorFlow, PyTorch) and **R** (keras)
- Application development in **Python** (Flask, Streamlit, PyQt5)

Tools: Jupyter Notebook, RStudio, Anaconda Prompt, Visual Studio Code, GitHub, Google Colab, Deepnote, Heroku, Netlify, Docker