



# AUDHI APRILLIANT

Faculty Mathematics and Natural Science (FMIPA)


Statistics, IPB University

 [audhiaprilliant.github.io](https://github.com/audhiaprilliant)

 [linkedin.com/in/audhiaprilliant](https://www.linkedin.com/in/audhiaprilliant)

 [github.com/audhiaprilliant](https://github.com/audhiaprilliant)

 [audhiaprilliant@gmail.com](mailto:audhiaprilliant@gmail.com)

 +6285716903536



## INTEREST

Data Analysis

Business Intelligence

Data Mining

Data Visualization

NLP

Programming

## COMPETENCY

### Programming language

R (Advanced), Python (Intermediate), Shell Scripting (Basic)

### Library

Caret, Tidyverse, Ggplot2, Numpy, Pandas, Scikit-learn, Tensorflow (Basic), OpenCV, Selenium, BeautifulSoup

### Databases and Data

Microsoft SQL Server, MySQL, PostgreSQL, CSV, JSON

### Data Visualization

Tableau

### Analytics

Microsoft Office, Google Analytics

### DevOps

Docker container (Basic)

### Google Cloud Platform

BigQuery, StackDriver Logging, IAM Policy Export

## PROFESSIONAL EXPERIENCES

Jul 2020

### Data Solution Engineer, LinkAja, Jakarta, Indonesia

Apr 2020

- Joined in IT and Big Data Team to provide IAM Policy logs in Google Cloud Platform to monitor new user and service account
- Using BigQuery as cloud database to store historical data of IAM Policy using query procedures and apache airflow as workflow management as directed acyclic graphs (DAGs) of task
- Built aggregated sink to store admin activity and data access in Google Cloud Platform to monitor user who grants any roles or create service account for services

BigQuery

Airflow

ETL

Analytics

Logging

Shell

Aug 2019

### Data Analyst, Iris Worldwide Indonesia, Jakarta, Indonesia

Jun 2019

- Joined in Customer Relationship Management (CRM) to build an automation system for partitioning data as a request for several campaigns. I am responsible to make the program as a function using R language
- Data cleansing using Microsoft Excel and R to remove redundant data and provide it to the Iris campaign system to the client
- Learned Google Analytics to get any insights and created it as a weekly and monthly report. To make a report, it also needed to get data from server using Microsoft SQL Server

Microsoft Office

R

Microsoft SQL Server

Google Analytics

## TEACHING EXPERIENCES

---

- |                                    |   |
|------------------------------------|---|
| <b>Dec 2019</b><br><b>Aug 2019</b> | <b>Explanatory Data Analysis, IPB University, Bogor, Indonesia</b> <ul style="list-style-type: none"><li>• Used R programming to introduce data manipulation and data pre-processing, ggplot2 as the grammar of graphics in R, and introducing several kinds of plot to visualize our data properly</li><li>• Taught several methods to observe the data, a concept of robust regression and its application to the dataset provided</li></ul> <div><span>R</span> <span>ggplot2</span> <span>Data Manipulation</span> <span>Data Visualization</span></div>  |
| <b>Dec 2019</b><br><b>Aug 2019</b> | <b>Regression Analysis, IPB University, Bogor, Indonesia</b> <ul style="list-style-type: none"><li>• Helped student to understand the concept of linear regression and its application, Gauss Markov assumptions, Principal Component Analysis (PCA), stepwise regression, and manual mathematics calculation to obtain statistic</li><li>• Taught how to use Minitab and R as data analysis tools, especially in regression analysis, for instance to check assumptions, make any kind of plots, and data manipulation</li></ul> <div><span>R</span> <span>Minitab</span> <span>Data Analysis</span></div> |
| <b>Dec 2018</b><br><b>Aug 2018</b> | <b>Statistical Method, IPB University, Bogor, Indonesia</b> <ul style="list-style-type: none"><li>• Taught the student of veterinary medicine to explore statistics. I also gave topics of descriptive and inference statistics</li><li>• Introduced Minitab as data analysis tool, include some tips and tricks to use</li></ul> <div><span>Minitab</span> <span>Microsoft Excel</span></div>  |

## EDUCATION

---

### **Institut Pertanian Bogor**

2016 – 2020

Majoring in Statistics – GPA **3.76 of 4.00**

Final year research in Natural Language-based Financial Forecasting (NLFF) as a field of Natural Language Processing (NLP) and financial analysis

#### Relevant coursework

Explanatory Data Analysis Statistical Theory Regression Analysis Multivariate Analysis Sampling Method

Statistical Method Algorithm and Programming Database

#### Minor courses

Data Mining Financial Mathematics

## HONORS AND AWARDS

---

### **The 1st Place of Data Mining Competition, Telkom University**

Nov 2019

National Data Summit – HIMA MBTI and Research Center Telkom University

Presented a paper of “Analisis Daerah Berpotensi dan Estimasi Potensi Daya Angin Menggunakan Deep Neural Network Guna Mencapai Sustainable Development Goals 7: Affordable and Clean Energy dengan Studi Kasus Provinsi NTB, Indonesia”

**The 4th Place of Data Mining Competition, Telkom University**  
GEMASTIK XII – Kementerian Riset Teknologi dan Pendidikan Tinggi

Oct 2019

My team sent a paper which discusses Deep Neural Network (DNN) to analyze any potential area for developing power generation for preliminary stage. In the final, asked to build image classification model using Convolutional Neural Network (CNN)

**The 2nd Place of Data Analysis Competition, ITS**

Apr 2019

Data Analysis Competition ASEAN Region – Himpunan Mahasiswa Statistika ITS

Conducted a sampling method to the dataset provided and built a classification model to predict churn nor not-churn telco customer and presented it in front of judges and participants. My team also won the best poster for the US Air Quality Index (AQI) analysis done in the preliminary stage

**The 2nd Place of Essay Competition, Brawijaya University**

Apr 2019

Hi-Great Essay Competition – Himpunan Mahasiswa Teknologi Pertanian

Made and presented the prototype of SmartSQ, smart mobile apps as a centralized monitoring system for quality control in agroindustry. Worked in a team as founder, writer, and graphic designer

**The 2nd Place of Business Plan Competition, Padang National University**

Oct 2018

Gebyar Wirausaha Mahasiswa Nasional – Unit Pengembangan Karir dan Kewirausahaan UNP

Presented an idea of Cheese Cake, new alternative food for tourism in Bogor. Worked in a team as co-writer and graphic designer. Our poster was chosen as the best business poster

**Top 15 of Business Plan Competition, Tower Bersama**

Aug 2018

TBIG CreatiON 2018 – Tower Bersama Infrastructure Group (TBIG)

Created and presented a business proposal of Waste Trader, an innovative marketplace for reducing and recycling the waste in Indonesia. Selected as the top 15 of the best business model over 500+ applicants

## PERSONAL PROJECTS

---

**Web Scraping and Automation**

2019 – Now

- Built Python and R program to scrape data from website automatically as the request of a client, needs of final year research, and as a hobby
- There are any kind of automation program built such as news content scraper (Kompas, Detik, and Okezone), the robot in Knapsack Family site to get information of metabolite, Shopee Seller Scraper, Covid19 Kompas scraper

R   rvest   Python   BeautifulSoup   Selenium   ChromeDriver   Cronjob   Shell Scripting

**Kaggle Competition (team)**

Jul 2019 – Jan 2020

- Joined Kaggle data competition hold by universities in Indonesia, such as IPB University, Gadjah Mada University, Bandung Institute of Technology (top 10 or top 15)
- Used data manipulation and features engineering for pre-processing and machine learning methods (classification nor regression), such as Random Forest, Support Vector Regression, Decision Tree, etc for solving the problem

R   Python   Data Manipulation   caret   ggplot2   Scikit-learn   Markdown

### **Sentiment Analysis on Twitter**

Jun 2019

- Created full analysis of sentiment analysis on Twitter after the general election 2019
- Determined sentiment using the lexicon-based approach, the visualized volume of tweets and sentiment proportion using ggplot2, and build hate speech classification model using Naive Bayes method

twitterR

Tidyverse

Caret

StringR

katadasaR

## **COURSE & CERTIFICATION**

---

### **TOEFL Preparation Test – English Period Bogor**

Feb 2020

TOEFL Score 497

### **Programming Essentials in Python – Python Institute**

Oct 2019

A course about fundamental programming techniques, data structure, algorithm, function, etc

### **Learn SQL Basics for Data Science Specialization Course – Coursera**

Jul 2020

Course 1 – SQL for Data Science

Course 2 – Data Wrangling, Analysis, and AB Testing with SQL

Course 3 – Distributed Computing with Spark SQL

Course 4 – SQL for Data Science Capstone Project

### **Introduction to Git and GitHub – Coursera**

Jul 2020

Learn how to keep track of the different versions of code and configuration files using Git

## **LEADERSHIP EXPERIENCES**

---

### **Head of Science Department**

Jan 2019 – Oct 2019

Gamma Sigma Beta – Statistics Club, IPB University

- Updated statistics competition info and also student achievements
- Managed and developed a tutor system
- Conducted the sharing session with a topic in Statistics, its application, and future job

### **Vice Chair of Committee The 13th Statistika Ria**

Jan 2018 – Nov 2018

Department of Statistics, IPB University

Statistika Ria is one of the largest Statistics events in Indonesia. Statistika Ria which is an international event consists of the seminar, talkshow, and university student competition. The theme of 13th Statistika Ria was "Data Monetizing"

- Gave ideas for the main event with all the head division and even staff
- Became the QC for competition division, media and branding division, and logistics division
- Helped each division's needs, for instance for a meeting, ideas, motivation, and so on