

# Mohammad Hamid Asnawi, S.Stat

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🐙 [github.com/mhamidasn](https://github.com/mhamidasn)

🎓 [google-scholar](https://scholar.google.com/citations?user=...)

🔗 [codewars.com/users/mhamidasn](https://codewars.com/users/mhamidasn)

I am a Google Certified TensorFlow Developer and a Bachelor of Statistics from Universitas Padjadjaran, with a strong passion for the fields of AI and data. Through my project work, research papers, work experience, and participation in competitions, I have cultivated diverse expertise in AI, data science, machine learning, data analysis, and data consulting. My commitment to knowledge sharing is evident through my research papers, and I take pleasure in continuously exploring the ever-evolving realm of technology through various certified platforms. With a keen interest in advancing AI and data-driven solutions, I am determined to contribute my skills and creativity to tackle real-world challenges and drive innovation in the industry.

## WORK EXPERIENCE

### AI & Big Data Research Assistant (June 2022 – May 2023)

Research Center for Artificial Intelligence and Big Data (AIDA) Universitas Padjadjaran – Bandung, Indonesia

- Conducted an experiment and research about computer vision, particularly 3D image segmentation on the COVID-19 CT-scan.
- Wrote 2 research papers entitled "Lung and Infection CT scan-based Segmentation with 3D UNet Architecture and its Modification" and "UNet vs. LinkNet for Segmentation: Which One is Better for Visualizing the 3D Lung Construction of COVID-19?".
- Developed and implemented a highly efficient data pipeline and ML modeling pipeline with MLOps integration, enabling automated parameter experiments and enhancing overall productivity.

### Data Scientist Intern (August 2022 – December 2022)

Telkomsel – Jakarta, Indonesia

- Created 12 unsupervised Natural Language Processing (NLP) machine learning models to compare and find the best model for the topic modeling project.
- Created a machine learning pipeline with the Kedro framework for the topic modeling code to make it more reproducible, maintainable, and modular.
- Used kedro-mlflow to implement MLOps to track the modeling experiments much easier.
- Wrote 2 medium article about the introduction to kedro-mlflow and kedro-fastapi.

### Data Analyst and Data Consultant (January 2021 – December 2022)

Jatinangor Research Center – Sumedang, Indonesia

- Assisted clients in solving their data analysis issues. I received a diverse range of clients with various problems, mostly related to their theses, and aided them in analyzing their data using a variety of statistical methods.
- Tutored my clients on the appropriate methods and analytical steps to fit their particular problem

### Teaching Assistant (February 2021 – December 2021)

Universitas Padjadjaran – Bandung, Indonesia

- Teaching assistant for the computer programming laboratory class for first-semester statistics students, the multivariate data analysis laboratory class for third-semester statistics students, and the database laboratory class for second-semester statistics students at Universitas Padjadjaran during the 2020/2021 and 2021/2022 academic years.

## EDUCATION

### Bachelor of Statistics (Sarjana Statistika / S.Stat)

Universitas Padjadjaran (undergraduate/bachelor studies) – Indonesia – GPA: 3.89/4.00

### Machine Learning Path Student

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka (non-formal studies) – Final score: 93.05/100

## PAPER RESEARCH PUBLICATION

### Paper Research Project

Please check my Google Scholar account for full information and manuscripts of each paper: [Scholar Account](#)

- Paper in English
  1. "Lung and Infection CT-Scan-Based Segmentation with 3D UNet Architecture and Its Modification" Published in [MDPI Healthcare](#) as part of a special issue on Artificial Intelligence (AI) and Machine Learning (ML) in Medical Imaging Informatics towards Diagnostic Decision Making.
  2. "A Comparison of SVM and Naïve Bayes Classifier in Binary Sentiment Reviews for PeduliLindungi Application" published in [IEEE Xplore](#) as part of the 2021 International Conference on Artificial Intelligence and Big Data Analytics.

- Paper in Bahasa Indonesia (The title of the paper has been translated into English, and all of them have been published in the National Statistics Proceedings of Universitas Padjadjaran)
  1. “Comparison of Naïve Bayes, K-NN, and SVM Algorithms in Classifying Social Media Sentiments”
  2. “Hierarchical Cluster Analysis for Grouping Provinces in Indonesia based on People's Welfare Indicators”
  3. “District/City Mapping in West Java Based on Type of Agricultural Business Using Correspondence Analysis”
  4. “Application of Correspondence Analysis to Mapping Provinces in Indonesia Based on Number of Health Personnel”
  5. “ARCH/GARCH Application in PT Kimia Farma (Persero) Tbk Stock Price Prediction”

## CONFERENCE PARTICIPATION

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### Basic Science International Conference 2022

Presented my research titled "UNet vs. LinkNet for Segmentation: Which One is Better for Visualizing the 3D Lung Construction of COVID-19?" at the conference and was honored as the best presenter.

### International Conference on Artificial Intelligence and Big Data Analytics (ICAIBDA) 2021

My team and I Presented our research titled "A Comparison of SVM and Naïve Bayes Classifier in Binary Sentiment Reviews for PeduliLindungi Application".

### Universitas Padjadjaran Statistics National Conference 2021

My team and I presented our five research papers on different topics in the field of data modeling, including time series data modeling, supervised NLP modeling, and multivariate data modeling. All of the research papers we presented were successfully published in the National Statistics Proceedings of Universitas Padjadjaran.

## OTHER RELEVANT EXPERIENCE

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### Certification

- TensorFlow Developer Certification by Google Tensorflow

### Project

- “SkinGortihm: Know What You Need” application project (as a machine learning engineer)  
Collected and labelled (annotated image masks for segmentation), built, and trained a total of 6 image segmentation models that were deployed in the SkinGotihm app to analyze users' face conditions (Acne, Wrinkles, Black Spots, Puffy Eyes).

### Achievement/Competition

- Tick Tick Bloom: Harmful Algae Bloom Detection Challenge 2023 hosted by NASA at DrivenData  
Ranked 33 out of 1377 participants
- Best Presenter at the Basic Science International Conference 2022  
Presented my research titled "UNet vs. LinkNet for Segmentation: Which One is Better for Visualizing the 3D Lung Construction of COVID-19?" where I compared two convolutional neural network (CNN) architectures for segmenting CT-scan images. I was also honored to be selected as the best presenter at this year's Basic Conference.
- Data Analysis Competition Informatics Festival (IFEST) 2021  
Made it to the final round of the national-level data analysis competition organized by Himpunan Mahasiswa Teknik Informatika Universitas Padjadjaran with a paper for the preliminary round entitled "A Comparison of SVM and Naïve Bayes Classifier in Binary Sentiment Reviews for PeduliLindungi Application"
- Data Analytics Competition PRS ITS 2021  
Managed to become one of the semifinalists in the Southeast Asia level data analyst competition, by applying regression theory to the problems.

### Specialization Certificate

- “Mathematics for Machine Learning Specialization” developed by Imperial College London and Coursera
- “Google IT Automation with Python Specialization” developed by Google and Coursera
- “DeepLearning.AI TensorFlow Developer” specialization developed by DeepLearning.AI and Coursera.
- “TensorFlow: Data and Deployment” specialization developed by DeepLearning.AI and Coursera.

### Course Certificate

- Have earned >30 course certifications in the field of AI, data, or tech in general from various reputable platforms, including Coursera, Udemy, DQlab, and Progate. Please check this link if you would like to see the full list of my certifications: [Certification List](#)

### Organization Experience:

- Head of STATIS – Statistics Badminton (January 2022 – December 2022)
- Deputy Head of Badan Perwakilan Anggota (Legislative Organisation) of Statistics Student at UNPAD (January 2021 – December 2021)
- Deputy Head of STATIS – Statistics Badminton (January 2021 – December 2021)

### Skills (-) and Language (•)

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|--|---|--------------------------------|
| - Python (Proficient)                              | - SQL (Intermediate)  | - Data Analysis (Intermediate) |
| - Machine Learning, AI (Intermediate)              | - Statistical Software (Intermediate)                       | - R / RStudio (Intermediate)   |
| - Statistical thinking and Analysis (Intermediate) | - Tableau, Data Vis (Intermediate)                          | - Microsoft Apps (Proficient)  |
| • Bahasa Indonesia (Native speaker)                | • English (C1 – advanced/proficient user – IELTS certified) |                                |