

# Iga Narendra Pramawijaya

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## Summary

Quarter time musician and podcaster, part time coder, full time learner.

That is how Iga describe himself. Iga is an Undergraduate Telecommunication student based in Bandung, Indonesia and specializing in Digital Signal Processing. Passionate about science with 12 years experience in computer programming with various languages (such as Java, JavaScript, Basic, C, C++, Python, R), interpersonal skills for working in a team and successfully completing several projects. It is also a pleasure for him to help people in their projects with an outstanding result.

Outside of research, computer programming and artificial intelligence, he fills his spare time with making music and reading books.

## Experience



### Machine Learning Facilitator

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka

Jan 2022 - Present (6 months +)

Chosen as one of 50 machine learning facilitators. Bangkit chose its top graduates from class of 2020 and 2021. Lead and assist a cohort of 25 students from same learning path as mine.

Outside of tutoring, I also:

- Provide consultative support to study together and support each other.
- Provide a supportive learning environment that will lead to a high graduation rate among students, at minimum of 85%.
- In overall. As a buddy, I allocate 6 - 7 hours per week on weekdays



### Research Manager

PukulEnam

Jan 2022 - Present (6 months +)

Manage research project for all scale AI and Health research consultant at pukulenam.ai (a pukulenam.id research bureau)

As a research manager, I responsible to:

- Protect engineering talent from client abuse
- Connect the right engineering talent with the right client
- Assign various tasks to most suitable talent
- Consult and communicate directly with clients
- Agreeing fee resolution with clients
- Maintain engineering talent by technical and personal wellbeing



### Chief Executive Officer

## PukulEnam

Nov 2021 - Present (8 months +)

PukulEnam is an online newsletter that delivers recent news about general public, health and technology. Data driven, Impact Oriented, and Customisable Newsletter for Indonesians is our goal

As a working CEO, I responsible to:

- Conceptualised AI system and pipeline for news and engineering division
- Encouraged well practices of digital marketing and its metrics.
- Led whole news, engineering, and marketing division to reach AI and data driven media
- Approved talent-scouting process and administrative work
- Built AI system for news division
- Implement flexible yet strong leadership



## Co-Founder

PukulEnam

Oct 2021 - Present (9 months +)



## University Innovation Fellow, Telkom University

University Innovation Fellows

Oct 2021 - Present (9 months +)

The University Innovation Fellows program empowers students to become leaders of change in higher education. Fellows are leading a global movement to ensure that all students gain the attitudes, skills and knowledge required to navigate a complex world. These student leaders from schools around the world create new opportunities that help their peers develop an entrepreneurial mindset, build creative confidence, seize opportunities, define problems and address global challenges.

Fellows are creating student innovation spaces, founding entrepreneurship organizations, hosting experiential events, and working with faculty and administrators to develop courses. They serve as advocates for lasting institutional change with academic leaders and represent their schools at national events.

The University Innovation Fellows is a program of Stanford University's Hasso Plattner Institute of Design (d.school). The program was created as part of the National Center for Engineering Pathways to Innovation (Epicenter), a five-year National Science Foundation grant (2011-2016), and became part of the d.school in July 2016.



## Reliability Engineer

i-Smile Laboratory

Oct 2021 - Present (9 months +)

As a volunteer reliability engineer, I responsible to:

- Doing initial setup,
- purpose performance upgrades
- Implement hardware maintenance
- ensure laboratory computing assets on Linux and Windows OS for AI training and purposes reliable with less than 24 hours downtime.



## **Research Assistant**

i-Smile Laboratory

Nov 2020 - Present (1 year 8 months +)

As a research assistant I:

- Conduct research, compete at various data science competition,
- Held International collaborative research with various universities such as Deakin University and Yuan-Ze University,
- Share knowledge about data science, machine learning, and artificial intelligence in scope of electrical and computer engineering



## **Data Science and Machine Learning Mentor**

Basic Computing Laboratory | Telkom University

Jun 2020 - Present (2 years 1 month +)

We believe continuous learning process in this laboratory. While or after you finish your contract teaching in the lab, we are still connected through weekly crash courses, and 1-on-1 mentoring about various fields in informatics, data analysis, digital signal processing, and electrical engineering.

I am a mentor in data science and artificial intelligence. As a mentor I am able to:

- deliver outstanding results to more than 3 thesis, project, and publications in various tech-stacks such as Python and MATLAB.
- provide most suitable scholarship advices, courses, and learning path
- motivate other lab assistant of continuous learning



## **Artificial Intelligence Engineer**

Kuwala

Feb 2022 - Apr 2022 (3 months)

Responsible to create a suitable mix marketing model using Meta's Robyn platform. Uses PostgreSQL, R, Rstudio for Visualisation and analysis, and Python. Also giving reports in mix marketing modelling implementation weekly



## **Code Maintainer**

Basic Computing Laboratory | Telkom University

Jul 2021 - Apr 2022 (10 months)

- Purposed, assigned, approved, give corrections for junior software engineer.
- Maintained code and deployment using Git.
- Encouraged open-source software development process.
- Implemented paper-less practicum system in Telkom University.



## **Computer Vision Research Engineer**

Yuan-Ze University

Aug 2021 - Mar 2022 (8 months)

Research intern for Computer Vision and Interactive Technology Laboratory (CVIT). Researching implementation, computer vision (CV) and deep learning case-study of low computing cost model to detect defect on steel.



## **Data Engineer**

Kuwala

Nov 2021 - Feb 2022 (4 months)

fixed and added features for three Kuwala's basic pipelines including processing data from Open Street Map and population density pipeline during probation using pyspark and postgresQL. Also addressed and tried to fix Windows-related issue to the code.



## **Artificial Intelligence Researcher**

Kampus Merdeka

Aug 2021 - Jan 2022 (6 months)

Joined Optic Communication Laboratory of Telkom University to detect landslide flagged by time-series anomaly detection using Time Domain Refractometry (TDR).



## **Associate AI Analyst**

Digital Talent Scholarship

Oct 2021 - Dec 2021 (3 months)



## **Chief of Telecommunication Science Association (TOSCA)**

HMTT Telco Tel-U

Dec 2020 - Dec 2021 (1 year 1 month)

TOSCA is a semi-autonomous body in HMTT Telco that concerns in academic and research competition. In this role I manage ongoing research, essays, call for papers, various competitions, funding management, and human resource management.

During my period of service, I promise to excel TOSCA performance that previously affected during COVID-19 pandemic. I really seek to relieve TOSCA's glory days in 2019



## **Junior Research Assistant**

Advanced Wireless Technologies (AdWiTech)

Aug 2021 - Sep 2021 (2 months)

Formerly known as AdWiTech, now known as The University Centre of Excellence for Advanced Intelligent Communications (AICOMS).

Purposing artificial intelligence method for efficient handover in 6G network.



## **Computer Vision Research Engineer**

LIVE Indonesia

Jul 2021 - Aug 2021 (2 months)

LIVE Indonesia is a startup company engaged in the AI and Data Science. Their business cover intelligent vision, speech/voice, natural language processing, biomedical engineering, and telecommunication.

Me and my colleagues did:

- researched in various deep learning algorithm to identify Indonesian retail products.
- Developed deep learning solutions to identify Indonesian retail products.

-planned smart and contact-less cashiers methods to be implemented in Indonesian grocery stores.



## **Material Provider**

Digital Talent Scholarship

Jun 2021 - Jul 2021 (2 months)

Provide and review basic mathematics, machine learning, deep learning, and AI deployment materials for Digital Talent Scholarship.

Thankfully with my deeplearning.ai specialisation I am able to design ideal materials for AI starters but with industrial needs.



## **Artificial Intelligence Consultant**

Sirkadian

Apr 2021 - Jul 2021 (4 months)

Sirkadian is a startup I co-founded with medical students of Udayana University with goal to deliver healthy lifestyle as a trend with four core, mental, physical, diet, and healthy sleep. In this role I am able to process food and ingredients database, also verify the authenticity and validity of AI algorithms used in food necessity and food recommendations system.



## **Machine Learning Graduate**

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka

Feb 2021 - Jul 2021 (6 months)

An exclusive academy led by Google, Tokopedia, Gojek & Traveloka with 6.38% acceptance rate.

Designed to prepare students with in-demand skills and tech certifications, the new Bangkit curriculum offers 3 different paths - Machine Learning, Cloud Computing, and Android Development. By the end of this program, the participants will be equipped with the tech expertise and soft skills needed to transit from academia to the workplace and succeed at leading companies.

As a result, me and my colleagues managed to launch a mobile app called Zupa. Zupa app is an emergency companion app designed for Indonesia's urban environments with goal to endure public safety and enhanced it with state-of-the-art technology. I led the machine learning division to create a robust deep learning method to detect four types of violence through audio input with 85% of accuracy.

Also, I selected as the one of first batch Indonesia's University Innovation Fellows delegate. UIF is a programme powered by Stanford University that has a goal to empower students to be agent of change in their home universities. UIF programme is exclusive for Bangkit Students with only less than 2% acceptance rate.



## **Software Developer**

Basic Computing Laboratory | Telkom University

Aug 2020 - Jul 2021 (1 year)

In this responsibility, my major roles were:

- created online practicum website. (<https://www.daskomlab.com>) as full-stack developer
- Implemented Laravel, Vue.js, socket.io, and tailwind css as our standard tech-stack.
- guarantee laboratory's website availability and operability
- maintained laboratory's website source code by implementing clean CI/CD

-created mobile application and APIs connection from and to the website.



## **Practicum Assistant**

Basic Computing Laboratory | Telkom University

Aug 2019 - Jul 2021 (2 years)

Here, with other assistants I teach electrical, telecommunication, and physics engineering freshmen how to code and implement useful basic algorithm.

My responsible are:

- created high quality programming problem-set based on daily life situation.
- taught C programming language as primary and mandatory language to freshmen students with little to none programming experience
- delivered and taught algorithm in various languages such as Python, PHP, C++, etc, in request



## **Intern**

Telkom Indonesia

Jul 2020 - Aug 2020 (2 months)

Telkom University has a mandatory pre-intern (geladi) programme for Junior students.



## **Research and Logistic, Telecommunication Science Association (TOSCA)**

HMTT Telco Tel-U

Oct 2018 - Aug 2019 (11 months)

TOSCA is a semi-autonomus body in HMTT Telco that concerns in academic and research competition. In this role I manage ongoing research, essays, call for papers, and various competitions.

During my service, TOSCA achieved 2nd Place in National Essay Writing competition In Bali, Invitation to innovation competition in Hong Kong SAR, Gold Medal in Japan Design Invention Expo, and Special Award from Highly Innovative Unique Foundation (Saudi Arabia).

## **Education**



### **Telkom University**

Bachelor's degree, Telecommunications Engineering

2018 - 2022



### **SMA Negeri 3 Denpasar**

Science and Mathematics

2015 - 2018

## **Licenses & Certifications**



### **Google IT Support Specialization - Google**


HVTUX7JZRDF8



### **Google IT Automation with Python Specialization - Google**

XJAA9NS6PXJV


 **Python Core** - Sololearn

 **PHP** - Sololearn

 **Mathematics for Machine Learning Specialization** - Imperial College London  
L2TYBYXAW93T

 **DeepLearning.AI TensorFlow Developer Specialization** - DeepLearning.AI  
82KDAWDAPCK8

 **TensorFlow: Data and Deployment Specialization** - DeepLearning.AI  
LYR9AJN9PMQG


 **TensorFlow Developer Certificate** - TensorFlow Certificate Program  
Issued Aug 2021 - Expires Aug 2024  
37812433

 **Belajar Membuat Augmented Reality dengan Lens Studio** - Dicoding Indonesia  
Issued Sep 2021 - Expires Sep 2024  
GRX5K4OJVZ0M

## Skills

Open-Source Software • English • Analytical Skills • Python (Programming Language) • C (Programming Language) • Artificial Intelligence (AI) • TensorFlow • PyTorch • LaTeX • Academic Writing

## Honors & Awards

 **Gold Medalist JDIE 2019** - Japan Design Invention Expo  
2019

This is the 2nd Version of BANANY. It has all of the features from the previous version with various interesting upgrades.

-Now BANANY's wireless network able to share internet connection. Connect BANANY to LAN with internet connection and it will act as an access point and logical NAS

- Powered with deep learning to classify backed up photos.

- Transfer speed upgrade up to 25 Mbps

- Lighter designs with reinforced acrylic case, SSD support, and better passive cooling air circulation



### **Special Award HIUF - Highly Innovative Unique Foundation (Saudi Arabia)**

2019

Given alongside gold medal in Japan Design Invention Expo. Awarded for favourite idea in IoT and Embedded System



### **Bronze Medalist MTE 2018 - Malaysia Technology Expo**

2018

Given for 1st Generation of BANANY

This tool is located in a box where in the box there is already a hard drive with a slot that can read SD cards. This tool uses a power bank as its resource. This tool can move data from the camera's SD Card to the hard drive automatically. The speed when doing this is 2.2 MBps. In addition to moving data to the hard disk, this tool can also transfer data using Wi-Fi, so that data can be transferred directly. Data transfer speed when using Wi-Fi is 1.6 MBps.



### **Special Award and Direct Invite Croatian INOVA - Croatian INOVA**

2018

Given Alongside bronze medal in Malaysia Technology Expo. Awarded as favourite invention



### **National 2nd Best Jingle Creation - Indonesia Ministry of Energy and Mineral Resource**

2016

A song meant to spread good message to save energy consumption



### **Finalist for National Young Inventor Awards - Lembaga Ilmu Pengetahuan Indonesia (LIPI)**

2017

LIPI annually held scientific paper and invention awards. Our team Selected to delegate Bali in our invention to decrease parent's anxiety about their children status and location.



### **5th Champion Telemotion Telecommunication Olympiad - Telecommunication Student Union (" IMT SIGNUM ") Bandung Institute of Technology**

May 2017

Telecommunication olympiad consists of computer science, mathematics, and physics.



### **Top 100 Social Project Innovillage 2020 - Telkom Indonesia**

Oct 2020

Sistem Informasi Kebun Berdaya (Si-KB) Selected as top 100 social project and granted with full funding (1600+ US\$)



### **2nd Champion Forestry CTF - Forensic and Security Laboratory Telkom University**

Mar 2021



Together with mendung\*10^6 team (read: megamendung) we achieved 2nd in a CTF hacking competition. I mainly solve steganography and Open Source Intelligence (OSINT) problems



**Indonesian Science Project Olympiad (ISPO) National Finalist - PT Edukasi**

Universal Indonesia (ISPO)

2017

Researched Balinese Gambelan Frequency and Tempo as a Trance Triggering Factor



**2nd Champion National Essay Writing Competition - BKFK Warmadewa University**

Nov 2018

Purposed "WIPE" (Wireless Integrated Pen) as Socio-technopreneurship project to utilise Balinese bamboo manufacturing.



**Best Assistant for Telecommunication Engineering 2021 - Basic Computing**

Laboratory

Jun 2021

Voted as best assistant (teaching aspects, kindness, material clarity and presentation, etc) from telecommunication engineering students.



**People Analytics Participant BRI Hackathon 2021 - Bank Rakyat Indonesia (BRI)**

Apr 2021

Best Score: 0.53420



**Satria Data 2021 Participant - Pusat Prestasi Nasional, Kemendikbud RI**

Oct 2021

Participate with President University team, tasked to create a model that could identify genders from a person's photo. Finished top 30

F1-Score: 0.8745



**Bronze Medal (as Supervisor) - Indonesia Inventors Day**

Nov 2021

Supervising APEKS (stunting detection tool) v1.0 from Universitas Pendidikan Ganesha



**Gold Medal (as supervisor) - The 9th Macau International Innovation and Invention Exhibition 2021**

Jan 2022

Supervising APEKS (stunting detection tool) from Universitas Pendidikan Ganesha representing Indonesia