Iga Narendra Pramawijaya

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

Undergraduate Telecommunication student specializing in Digital Signal Processing. Passionate about science with strong 11 years experience in computer programming, and interpersonal skills for working in a team and successfully completing several projects. It is also a pleasure for me to help people in their projects and they thank me with an outstanding result.

Experience

CVIT Laboratory   **Yuan-Ze University, Taiwan**
Computer Vision Research Engineer   *2021–Ongoing*

CVIT is a Yuan-Ze University's laboratory focusing on Computer Vision (CV) and human-computer interaction system. I joined this laboratory as an intern researcher. We mainly solve implementation and study-case based research.

AICOMS   **Telkom University, Bandung**
Junior Research Assistant   *2021–Ongoing*

The University Centre of Excellence for Advanced Intelligent Communications (AICOMS) is a science and technology centre of excellence for telecommunication technology. I Purposed artificial intelligence method for efficient handover in 6G network. Compatibility and implementation is still ongoing.

Sirkadian   **Denpasar**
Head of Artificial Intelligence   *2021*

Sirkadian is a startup with a vision to make healthy living an easy and popular lifestyle. Here I am working to design algorithms, machine learning architecture, and dataset for best diet prediction.

Intelligent System and Machine Learning Laboratory   **Telkom University, Bandung**
Research Assistant   *2020–Ongoing*

In this laboratory, we created several research related to artificial intelligence and machine learning, tutoring students especially computer engineering student about AI, and participating data hackatons.

Laboratorium Dasar Komputer   **Telkom University, Bandung**
Practicum Assistant, Senior Software Developer, and Code Maintainer   *2019–2021*

Awarded as best assistant for telecommunication students, here I teach freshmen how to code mainly in C and other languages. My speciality among other assistant is machine learning competence and my flexibility with other various programming languages. Outside of tutoring, I also maintain the laboratory website and make sure everything is on check in terms of software.

Education

Telkom University   **Bandung**
Telecommunication Engineering, GPA (per 2021 Summer Holiday) 3.80/4.00   *2018–Ongoing*

Bangkit Academy   **(Remote)**
Machine Learning Path, Average Score: 93.43/100.00   *2021*

Notable Projects

- **Bangkit Academy Capstone Project:** *'Violence Detection using Convolutional Neural Network'*

  I am part of a six person team developing what we call as 'Zupa App'. We brings public safety especially women and children safety into an application, as a companion app that can deliver safety tips, SOS button, and make enforcer's task easier. As Machine Learning head developer, we made in app CNN model that could detect four types of violence using audio input activated with SOS button.

- **Personal Project:** *'BANANY, Backup Anywhere Anytime'*

  Banany is a portable, machine learning powered backup device for photographer, also powered with wireless network, access point, and NAS capability. Banany uses pretrained model - weighted using MSCOCO - to classify most dominant object in backup photos. This project awarded with gold medal plus special award in Internet of Things from Japan Design Invention Expo 2019, and bronze medal plus special award from Malaysia Technology Expo 2018.

- **Object Oriented Programming Final Project:** *'Automatic Billing for 'Warteg' dish Using Mask-RCNN'*

  Using Java and Python, me and my 2 colleagues created a system for Indonesian dine-in home dish restaurant ('Warteg') so consumer have more information in lacking of transparency by the cashier. It took an image of our plate containing rice and condiments, then using mask RCNN to identify condiments and sum up the price taken from database.

- **COVID-19 related Social Project:** *'Kebun Berdaya'*

  We empower an urban farming community in northen Denpasar with data and information technology. Trough upgrades we gave, this community able to monitor their plants, and how they are making individually or as a whole community, creating financial opportunity and food sustainibility during the pandemic. Also we won direct funding from Telkom Indonesia as top 100 Social Project in Innovilage 2020.

- **Laboratory Research:** *'Electrical Bill Prediction using Time Series'*

  In Intelligent System and Machine Learning Laboratory, We create electrical bill prediction system, my role is to deploy the machine learning model as a website. We also have a plan to publish this as an academic paper

- **Web development for Laboratorium Dasar Komputer:** *'daskomlab.com'*

  We created a website for practicum purposes. daskomlab.com is our pride and legacy generation to generation. We choose a software developer each year but still coordinating with previous developers as it is an open source product. We use Laravel, Vue.js, socket.io, and Linux powered deployment environment.

Technical and Personal skills

- **Programming Languages:** Course Certified in: Python, PHP
  Proficient in: TeX, C, C++, Arduino
  Also basic ability with: Assembly, VHDL, Java, Pascal, BASIC, JavaScript, SQL syntax.

- **Industry Software Skills:** Matlab/OCTAVE (Intermediate), Steganography tools (intermediate), Adobe Premiere (intermediate), Adobe Photoshop (Basic), Audacity (advanced), Adobe Audition (intermediate), Most MS Office products (Advanced), Logic Pro (Advanced), Ableton (basic).

- **Certification and Specialization:** Certified TensorFlow Developer, TensorFlow data and deployment, IT Automation with Python from Google, Google IT support, Mathematics for Machine Learning from Imperial College London, Python Core from Sololearn, PHP Programming from Sololearn.

- **General Skills:** Presentation skills, Teamwork.

Interests and extra-curricular activity

- I am the chief of Telecommunication Science Association (December 2020-2021). I lead telecommunication students whose passionate in research and competition to reach their maximum potential in competitions. I also tutor academic writing in the association.

- I am interested in data science, currently I am learning data analysis in my spare time. Also, I will join datathons to increase my data science proficiency.

- In Laboratiorium Dasar Komputer we have a programming community. I mainly contributed as data science, web programming, and machine learning tutor. As a community we help each other and we are really proud that a lot of machine learning and deep learning thesis drives many of our member to graduate in cumlaude honour.

- Sometimes a lot of people asked me about my story, so I made a podcast! Since Bangkit Academy I run 'Bangkit 2021 Podcast' to share things about bangkit, share our mindset, and enhance our English speaking skill. This podcast is available on Spotify and Google Podcast.

- In my spare time, books and music are my escape. Proven by songs that I wrote, co-written, and musics I've covered. Vocal, Keyboard, and Guitar are my instrument along with my proficiency in Digital Audio Workstation.

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