

# Roysihan

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**Machine Learning graduate** from **Bangkit** led by **Google, Goto, and Traveloka Academy 2024** with **958 hours** of intensive training. Achieved **93%** in **TensorFlow** and **ML specializations**. **Two-time national robotics competitor (KRI 2022-2023)** with proven **technical skills** in **Python**, **IoT**, and **data analytics**.

## WORK EXPERIENCE

**Internship Trainee** Oct 2025 - Present  
**CV. Masagena Innawa** Tanjungpinang, Indonesia

I am a **dedicated Administrative Intern** at **CV. Masagena Innawa**, with over **two months of experience** in facilitating office operations, creating **visual assets**, and conducting **field research**. My tenure has involved a **diverse scope of work**, ranging from **designing book covers** and documenting **project milestones** to recording **executive meeting minutes** and performing **on-site field surveys**. Now entering my **third month**, I continue to leverage my skills in both **design** and **administration** to drive **organizational efficiency**.

**Machine Learning Cohort** Feb 2024 - Present  
**Bangkit Academy 2024** Jakarta, Indonesia

Completed **958 hours** of intensive **machine learning training** achieving **88.9% average score** across **13 courses** including **TensorFlow**, **Python**, and **data analytics**. • Developed **AI-powered mobile application (ABA-I)** as capstone project designed for **visually impaired children** featuring **book recommendation system**, **interactive chatbot**, and **text-to-speech functionality**. • Collaborated with **crossfunctional team** to build **machine learning models** using **Python**, **TensorFlow**, and **Pandas** for **data preprocessing** and **model deployment**.

**Robotics Volunteer Educator** Sep 2022 - Sep 2022  
**Esa Unggul University** Jakarta, Indonesia

Volunteered as **robotics instructor** introducing **basic robotics concepts** and **technology fundamentals** to **elementary school students**.

**Robotics Team Member** Jun 2022 - Jun 2022  
**Indonesia Robot Competition 2022 & 2023 (KRI)** Jakarta, Indonesia

Competed in **national-level robotics competition** for **two consecutive years** representing **Universitas Esa Unggul** in **Robot Tematik Division** and **Robot Rescue Division**. • Designed and built **autonomous robot** equipped with **real-time obstacle detection system** reducing collision rate by **30%** through **optimized sensor integration**. • Developed **wheeled gripper robot (2023)** and **legged rescue robot (2022)** using **Arduino Uno**, **C/C++ programming**, and **multiple sensors**.


## EDUCATION

**Sarjana Komputer** Jun 2021 - Feb 2025  
**Esa Unggul – Jakarta** GPA: 3.60/4.00 | Cum Laude  
Konsentrasi: IoT, Machine Learning & Fullstack Developer

## SKILLS

**Programming & Hardware:** C/C++, Python, Arduino, Javascript, Java  
**IoT & AI Tools:** Arduino Uno, TensorFlow, Machine Learning, Pandas, NumPy, Data Analytics, Skicit-Learn, Keras  
**Frameworks & Databases:** React, Laravel, SQL, HTML/CSS, Tailwind.css, Node.js, Mysql  
**Other Tools:** Git, Microsoft Office, Canva, Figma, PicsArt, Adobe Photoshop, Adobe Illustrator, Affinity

## PUBLICATIONS

**Implementasi Teknologi IoT pada Sistem Budidaya Ikan Nila/Mujair untuk Meningkatkan Efisiensi dan Produktivitas pada Tambak/Bioflok**  on **S E I K O : Journal of Management & Business** May 2025  
Developed an IoT system with real-time pH and temperature sensors, automatic feed distribution, and camera-based water quality monitoring for tilapia farms. Transmitted live sensor data to web and mobile apps. Integrated automatic servo controller for pH adjustment and real-time video with alert notifications sent via email. Improved monitoring efficiency, optimized feeding schedules, and reduced fish mortality risks.