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

Machine Learning Cohort **Feb 2024 - Jul 2024**
Bangkit Academy 2024 **Jakarta**

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 **cross-functional team** to build **machine learning models** using **Python**, **TensorFlow**, and **Pandas** for **data preprocessing** and **model deployment**.

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

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**.

Robotics Volunteer Educator **Sep 2022 - Sep 2022**
Community Service Program **Jakarta**

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

EDUCATION

Bachelor of Computer **Jun 2021 - Feb 2025**
Esa Unggul – Jakarta **GPA:** 3.60/4.00 | Cum Laude

Concentration: IoT, Machine Learning & Fullstack Developer

PROJECTS

Community Service Program | Robotics Volunteer Educator **Sep 2022 - Present**

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

Bangkit Academy 2024 | Machine Learning Cohort **Feb 2024 - Jul 2024**

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 cross-functional team to build machine learning models using Python, TensorFlow, and Pandas for data preprocessing and model deployment.

Indonesia Robot Competition 2022 & 2023 (KRI) **Jun 2022 - Jun 2023**

Competed in national-level robotics competition for two consecutive years representing Universitas Esa Unggul in Robot Tematik Division and Robot Rescue Devisiom. 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.

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

AWARDS

Cum Laude Graduate & Bangkit Academy 2024 Full Graduate

GPA 3.60/4.00, completed Google-led ML program with 958 hours training (88.9% avg), and competed in national robotics competition twice

PUBLICATIONS

Implementasi Teknologi IoT pada Sistem Budidaya Ikan Nila/Mujair untuk Meningkatkan Efesiensi 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.