# Angga Ramda Ramadhan

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## EXPERIENCE

**Artificial Intelligence Intern**                                                                 *August 2024 - Present*
PT. Salam Pacific Indonesia Lines (QHSE) – Jakarta

- Spearheaded 3 AI projects using YOLO and OpenCV to support QHSE operations. including real time object detection.
- Enhanced model performance with data augmentation, achieving 87% precision, recall 79%, and f1-score 84%.
- Collaborated with 2 departments to research AI applications, that potentially saving cost and enhanced operational efficiency.

**Laboratory Assistant for Data Mining Course**                                           *March 2024 – July 2024*
Buana Perjuangan University – Karawang, West Java

- Mentored over 200 students in applying machine learning algorithm and resolving code issues.
- Evaluated and graded weekly assignments, ensuring precision in data processing and model development using Python.

**Research Assistant**                                                                       *June 2023 – December 2023*
Buana Perjuangan University – Karawang, West Java

- Conducted comparative analysis of 5 machine learning algorithm to classify heart disease and stroke disease patients.
- Preprocessed large datasets over 100 columns and 600k rows of data and implemented oversampling technique (SMOTE - ADASYN) to solve imbalance data problem, achieving best performance 0.868 AUC score.
- Co-authored 2 research papers published in Sinta-indexed journals (Sinta 3 and Sinta 4).

## EDUCATION

**Bachelor of Computer Science**                                                         *September 2020 – June 2024*
Buana Perjuangan University – Karawang, West Java

- GPA: 3.51 / 4.00 (Cum Laude).
- Secure Incentive Award for Scientific Paper during the 2024 Student Creativity Week.
- Earned Silver Medal in Artificial Intelligence at National Scientific Paper Competition held by Brawijaya University (2023).
- Won 1st Place in KKN Scientific Paper Competition, Buana Perjuangan University (2023).
- Led the Class as Coordinator for 3 years and Laboratory Assistant for 6 months, mentoring over 200 students in Data Mining course.

## PROJECTS

**Chatbot with RAG to Analyze Candidate CV and Giving Feedback**                          *October 2024*
- Devised a sophisticated AI chatbot that employs RAG technology for CV feedback, running LLM on Grok cloud to increase 60% inference speed.

**General Chatbot with Llama 3.1**                                                                 *October 2024*
- Developed a web-based chatbot using LLM LLama 3.1 8B, optimized with Groq as an engine for fast local inference, capable handling up to 400.000 tokens per day.

**Deep Learning Methods for Classify Welding Quality Image**                          *May 2024 – July 2024*
- Built a CNN model with VGG16 for welding image classification, achieving 98% of accuracy in balanced data conditions.

## ACTIVITIES

**Workshop Committee, PIC Equipment Division "Trap Hackers with Honeypots"**                 *June 2023*
Buana Perjuangan University – Karawang, West Java

- Coordinated 5 team members in the equipment division and worked with other departments to ensure seamless event execution and proper tool management during the event.

## CERTIFICATION / PATENT

- **Data Analysis with Python** – Dicoding                                               Sept 2024 – Sept 2027
- **Data Science** – Dicoding                                                            Sept 2024 – Sept 2027

- **SQL Fundamentals -** Dicoding — Sept 2024 – Sept 2027
- **Machine Learning for Beginners** – Dicoding — Sept 2024 – Sept 2027
- **Python Programming** – Dicoding — Sept 2024 – Sept 2027
- **English Proficiency Certificate (442/600)** – British Council — Apr 2024
- **Patent: Implementasi Algoritma CNN Terhadap Aplikasi Klasifikasi Kesehatan Citra Bulir Padi "BRINJI"** — Aug 2023

## SKILLS

- **Python Programming Language**
- **Machine Learning**
- **Deep Learning**
- **LLM**