**Angga Ramda Ramadhan**

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**EXPERIENCE**

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

* 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.

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

* 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.

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

* 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).

**PROJECTS**

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| **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, with utilizing LangChain as a framework.

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| **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. Deployed on Google Cloud Platform.

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| **OCR for Automation Filling** | *October 2024* |

* Developed android application to extract Indonesian Identifier Card and Tax Card. Decrease usual time of manual data filling over 1 minute.

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| **Real Time Object Detection** | *August 2024 – September 2024* |

* Built a YOLO model with fine tuning for Personal Protective Equipment (PPE) and helmet real time detection, achieving 87% of precision of model performance. Quantizing model to FL16 to increase inference speed and FPS

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| **Comparing Machine Learning Algorithm to Classify Stroke Disease Patient** | *June 2024 – July 2024* |

* Implementing 5 Machine Learning algorithm such as Random Forest, Decision Tree, Logistic Regression, KNN, and Naïve Bayes.
* Optimizing performance with Oversampling Technique by increasing over 50% performance.

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| **Mobile Application for Classifying Fruit Freshness** | *August 2024 – September 2024* |

* Implement Convolutional Neural Network adding with NASNetMobile to increase performance over 60% and reduce overfitting. Quantizing model with tensorflow lite to reduce size of model by over 50%.

**EDUCATION**

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

* 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.

**ACTIVITIES**

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

* 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**

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| * **Building Generative AI-Powered Applications with Python** - IBM | Nov 2024 |
| * **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**
* **Large Language Model (LLM)**
* **Google Cloud Platform (GCP)**