**Muhammad Ruhunul Luthfi**

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<https://github.com/luth0910> | https://luthfi-portfolio.vercel.app

Highly motivated Informatics Engineering student in the final years semester with experience as a practicum assistant and Metaverse Developer (Blockchain) intern. Skilled in quick learning, effective knowledge application, and teamwork, seeking to contribute and grow in a dynamic environment.

**Education**



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| **University of Gunadarma** | Sept 2021 - Present |
| **Bachelor of Computer Science (GPA 3.80/4.00)**   * **Relevant** **Courses :** Algoritma dan Pemrograman, Kecerdasan Buatan, Komputasi Big Data, Pemrograman Web, Sistem Basis Data, Teknologi Kecerdasan Artifisial. * Conducted scientific research titled “Deep Learning Model for Stock Price Prediction of PT Astra International Tbk Using LSTM (Long Short Term Memory) ”, submitted to the SINTA 3-ranked Jurnal Ilmiah Ekonomi Bisnis on July 8, 2024, and currently under review | |

**Work Experience**



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| **University of Gunadarma** Sept 2024 – Nov 2024  *Assistant for the Mata Kuliah Praktikum Unggulan*   * Supported technical laboratory courses, including Big Data Computation, Intelligent Robotics, Social Networking, and AI & Society, assisting 50+ students per semester via Twakto live chat system, ensuring a 80%+ query resolution rate. * Managed and coordinated a team of 5+ lab assistants, resolving technical issues and optimizing workflow, leading to a 30% reduction in response time for student inquiries. * Provided real-time technical guidance and lab management, maintaining 100% uptime for laboratory systems and ensuring seamless operations. * Assisted students with Python and data science libraries (NumPy, Pandas, Scikit-learn) for analysis projects, helping 80% of students improve project performance based on assessment metrics.   **Direktorat Jenderal Pendidikan Tinggi, Riset, dan Teknologi** Feb 2024 – Jul 2024  *Metaverse Developer (Blockchain) Intern*   * Developed a character controller in Unity using C# for the Metaversitas project, ensuring smooth and responsive avatar movement while enhancing user interaction in a dynamic virtual environment. * Designed and implemented a real-time chat system in Unity using C# and Rust, resulting in faster message delivery, improved communication flow, and a more immersive 3D experience for users.   **University of Gunadarma** Sept 2023 – Jan 2024  *Assistant for the Mata Kuliah Praktikum Unggulan*   * Assisted students in Big Data Computation, Intelligent Robotics, Social Networking & Content Creation, and AI & Society through live chat on Twakto. * Provided clear guidance on programming issues and managed lab schedules via live chat to support learning and project completion. * Utilized Python and data science libraries to aid students in data analysis, visualization, and machine learning for real-time problem-solving.   **Project**  **Deep Learning Model for Stock Price Prediction of PT Astra International Tbk Using LSTM** Mar 2024 – Jul 2024  *University of Gunadarma*   * Conducted scientific research research on the application of Long Short-Term Memory (LSTM) networks for predicting stock prices of PT Astra International Tbk. * Developed and implemented an LSTM-based deep learning model for PT Astra International Tbk (ASII.JK) stock price prediction, achieving 98.55% accuracy with a Mean Absolute Percentage Error (MAPE) of 1.45% on test data * The paper is currently under journal review and is scheduled for publication in April 2025.   **University of Gunadarma** Sept 2024 – Jan 2025  *Pengel. Proyek Perangkat Lunak*   * Contributed to project planning by developing the Project Charter, Business Requirement Document (BRD), Work Breakdown Structure (WBS), and Responsibility Matrix. * Collaborated with the team to analyze project requirements, define scope, and document roles and responsibilities. * Implemented Waterfall methodologies to manage project tasks, timelines, and deliverables. * Coordinated with clients (Kosan Iphenk) and teams to ensure project alignment with business objectives.   **Training and Certification**  **Lembaga Pengembangan Komputer** Sept 2021 – Jul 2024  *University of Gunadarma*   * Engaged in database management courses, focusing on SQL Server and Oracle SQL Developer. * Advanced from beginner to intermediate level in SQL Server, learning database design, SQLqueries, and management tools. * Developed basic skills in Oracle SQL Developer database operations and architecture.   **Lembaga Sertifikasi Profesi** 23Sept 2024 – 28 Sept 2024  *University of Gunadarma*   * Completed a professional Data Science training covering data collection, preprocessing, validation, and labeling for machine learning. * Gained hands-on experience in model development and evaluation for data-driven decision-making. |
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**Skills and Language**

* **Soft Skills:** Team Management, Communication, Time Management, Adaptability, Initiative, Technical Troubleshooting
* **Hard Skills:** Web Development (HTML, CSS, PHP), Programming (Python, Java, SQL), Basic Data Science (Pandas, NumPy, Matplotlib, Scikit-learn), Game Development (Unity, C#), Version Control (Git, Github), Real-Time Chat Support (Twakto), Design (Figma), Microsoft Word, Database Management (SQL Server, MySQL)
* **Language:** Indonesian (Native), English: Intermediate (Passive understanding).