

# 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

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### Deep Learning Model for Stock Price Prediction of PT Astra International Tbk Using LSTM

Mar 2024 – Jul 2024

#### University of Gunadarma

- Conducted scientific 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.

*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

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### 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

23 Sept 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.

## Skills and Language

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- **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).