

# ADE YOHANA AZEKA SIAHAAN

+6289687834430 | [adeshnn17@gmail.com](mailto:adeshnn17@gmail.com) | [linkedin.com/in/adesiahaan](https://www.linkedin.com/in/adesiahaan) | [github.com/AdeYohanaAzekaSiahaan](https://github.com/AdeYohanaAzekaSiahaan) | Toba, North Sumatera, Indonesia

I am an undergraduate student in Information Systems with a strong interest in Data Engineering. Passionate about building scalable data pipelines and exploring emerging data technologies, I am highly motivated to tackle challenges and thrive in collaborative environments. With a solid foundation in programming and database concepts, I aim to contribute meaningfully to innovative and data-driven projects.

## Projects

### House Price Prediction - Machine Learning Project

Apr – May 2025

Developed a machine learning-based system to predict house prices accurately using an ensemble stacking approach (XGBoost, LightGBM, CatBoost). The model reduces bias and improves performance on complex property data. This system helps stakeholders make objective, data-driven decisions, minimizing pricing errors and increasing efficiency in real estate transactions.

### Admission Insights at IT Del 2023/2024 - Dashboard

Apr – Jun 2025

Developed a dimensional data warehouse and interactive business intelligence dashboard using Pentaho (PDI) to support strategic admissions analysis at IT Del (2023/2024), demonstrating skills in data modeling, ETL design and implementation, OLAP operations, and effective information presentation aligned with real-world business needs.

### Connect Alumni - Web Application

Aug - Nov 2024

Connects students and users with IT Del alumni, built using Laravel, Tailwind CSS, and REST API. It utilizes Laravel's MVC architecture, Eloquent ORM, Blade templating, and RESTful API development for seamless frontend-backend integration. The project also implements Tailwind's utility-first CSS, Laravel debugging tools, Git for version control, and dependency management with Composer and NPM.

### Merket sistem - Desktop Application

Jun - Jul 2024

A POS system for managing sales transactions digitally, built using Java and CSS. It utilizes SceneBuilder, NetBeans, and MySQL.

### Programming Projects (Academic) - Del Institute of Technology

- **Semester 2 (2023):** Learned and applied **procedural programming** using **C** through coursework, completing assignments that involved problem-solving, algorithm implementation, and debugging.
- **Semester 4 (2024):** Advanced to **object-oriented programming** using **Java**, focusing on OOP concepts (encapsulation, inheritance, polymorphism), SOLID principles, and UML modeling (Use Case, Class, Sequence Diagrams). Developed case study projects, small-scale applications, and collaborated with peers, focusing on exception handling, assertions, and creating modular, reusable, and robust code.

## Education

### Del Institute of Technology - Laguboti, North Sumatra, Indonesia.

Sep 2022 - Sep 2026 (Expected)

*Bachelor of Science in Information Systems*

- **Related Coursework:** Data Warehouse and Business Intelligence, Artificial Intelligence, Database, Advanced Database, Algorithm and Data Structure, Discrete Math, Probability and Statistics, Object Oriented Programming (OOP), Procedural Programming.

## Certifications

### Getting Started with Python Programming - Dicoding

Utilized popular libraries foundational to industry trends, including data science and machine learning.

### Learn Data Analysis with Python - Dicoding

Demonstrated enthusiasm for foundational data analysis concepts and methodologies, including case study discussions implemented using Python.

### Learn the Fundamentals of JavaScript - Dicoding

- Learned the fundamentals of JavaScript, including syntax and ES6 features.
- Utilized Node.js technology according to industry standards validated by AWS.

### Learn the Fundamentals of Web Programming - Dicoding

- Acquired a solid understanding of the essential components of HTML and CSS.

- 
- Developed skills in structuring web pages using HTML elements and styling them with CSS to create visually appealing and responsive designs.

### **Problem Solving (Basic) Certificate - HackerRank**

It covers basic topics of Data Structures (such as Arrays, Strings) and Algorithms (such as Sorting and Searching).

## **Experience**

---

### **Web Development Internship - Telkom Regional Operational Center 1** Jun 25 – Aug 25 (Expected)

Developed a web-based network monitoring system using Laravel with the MVC (Model-View-Controller) architecture. Responsible for both front-end and back-end development. Utilized Tailwind for responsive UI design and MySQL for database management.

## **Organizational Experience**

---

### **Facilities and Infrastructure Department - Del Institute of Technology** Aug 2023 - Present *Member*

- Responsible for preparing and coordinating facilities for each event to ensure all requirements are met effectively and the event runs smoothly.

### **Information Systems Student Association - Del Institute of Technology** Jan 2023 - Present *Member*

- Participated in association-organized events and activities

## **Skills**

- 
- **Technical Skill**  
Python, PHP, C (Programming Language), Java, Structured Query Language (SQL), Databases, Extract, Transform, and Load (ETL), Data Pipelines, Data Modeling, Data Warehousing Concepts, Tableau, Git, MySQL, Object-Oriented Programming (OOP), Debugging, Scrum.
  - **Soft Skills**  
Problem Solving, Creative, Teamwork, Critical Thinking, Flexibility, Adaptability, Fast learner.
  - **Languages**  
Indonesia (fluent); English (Limited Working Proficiency).

## **Achievements**

---

### **Huawei Developer Competition 2024 Asia Pacific - Participants**