

Glossary of Terms

Term	Description	First time page used
Aiven	: Cloud database-as-a-service platform that provides managed MySQL services for competitive data storage	5
Chatbot	: An AI program that can interact with users through natural language conversations to provide data analysis.	11
SUS	: System Usability Scale - a standard instrument with 10 questions to measure the ease of use of a system on a scale of 0-100	14
DITMAWA	: The Student Affairs Directorate of Telkom University, which serves as the source of student competition data.	38
AI	: Design Science Research Methodology - kerangka metodologis untuk pengembangan dan evaluasi artifact sistem informasi	23
ETL	: Extract, Transform, Load - a data processing pipeline from raw Excel to analysis-ready data	39
Flowise AI	: Low-code platform for building AI chatbots that can connect directly to databases and the OpenAI API	12
FRI	: Faculty of Industrial Engineering, Telkom University - locus of research and implementation of dashboard systems	1
GPT-4o	: OpenAI Large Language Model used for natural language processing in chatbots	11
Looker Studio	: Google business intelligence platform for creating interactive dashboards and real-time data visualization	5
NLIDB	: Natural Language Interface to Database - a system that allows querying a database using the Indonesian language	8