MUHAMMAD FAIS RAMADHANI

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PROFILE

An Information Systems student at the Faculty of Computer Science, Dian Nuswantoro University with a strong passion and commitment in data analysis, data science, system analysis, IT project management, and IT Support. Skilled in managing, analyzing, and presenting data strategically to support accurate, data driven decision making. Actively exploring Machine Learning and Deep Learning to build intelligent and efficient digital solutions. Experienced in preparing project documentation and system requirements using standard notations such as BPMN, DFD, and UML. Analytical, adaptable, communicative, and able to work both independently and collaboratively within a team environment. Open to internship or entry-level opportunities in data related roles, system analysis, project management, or IT Support with a strong drive to contribute meaningfully in a dynamic and technology driven workplace.

EDUCATION

Dian Nuswantoro University - Semarang, Indonesia
Undergraduate Student of Information Systems   Sept 2022 - Now
- Current GPA 3.70/4.00

INDEPENDENT STUDY PROGRAM

Intelligent Distributed Surveillance and Security (IDSS)
Dian Nuswantoro University   Feb 2025 – Jul 2025
- Selected as a participant in the IDSS Independent Study Program under the High Performance Computing (HPC) track, with active contributions to faculty-led research through Systematic Literature Review (SLR), Python-based code implementation, and structured research synthesis.
- Conducted a research project titled Meta-Heuristic Algorithm Approach for QoS Optimization in IoT Service Placement within Fog Computing Architecture, utilizing YAFS simulations GA, ACO, and PSO algorithms to evaluate latency, throughput, and energy efficiency.
- Produced a structured scientific journal draft for national publication, while deepening expertise in Machine Learning, Deep Learning, Fog Computing, and distributed AI-based computing.

INTERNSHIP EXPERIENCE

Data Entry & UI/UX Designer
Department of Communication and Informatics (Diskominfo) Semarang City   Mar 2025 – Apr 2025
- Responsible for data entry and administrative data management to ensure operational efficiency and accuracy within a government office environment.
- Actively involved in the redesign project of the Semarang City Agriculture Department website by revamping the user interface and flow using Figma, creating a modern, informative, and user-friendly platform that enhanced digital accessibility and public engagement.

PROJECT EXPERIENCE (Academic Project)

Review Analysis of SatuSehat Application Using LDA Modeling   Dec 2025 – Jan 2025
- Performed topic modeling on user reviews of the SatuSehat application using Latent Dirichlet Allocation (LDA) to uncover key themes and user concerns.
- Achieved an optimal coherence score of 0.4557 with four dominant topics identified: login issues, registration problems, vaccine certificate access, and technical errors.
- Findings were used to formulate data-driven recommendations for improving user experience and system reliability.

Machine Learning for Salary Prediction Feb 2025 – Feb 2025
- Developed predictive models using Decision Tree, Linear Regression, and Random Forest to analyze salary trends based on work experience.
- Optimized the Random Forest model, achieving top performance with 92% accuracy, R^2 score of 0.94, and MSE of 20,327.26 outperforming other algorithms in both accuracy and stability.
- Demonstrated strong analytical skills in feature evaluation, model comparison, and result interpretation to support data-driven decision making.

Time Series Analysis & Market Segmentation of National Gas Sales 2010-2023 Jun 2025 – Jul 2025
- Performed end-to-end data analysis on a 14-year gas sales dataset, including data cleaning, Exploratory Data Analysis (EDA), and the application of unsupervised learning to uncover customer consumption patterns.
- Utilized Dynamic Time Warping (DTW) to measure pattern similarity across time series data from different customer sectors, revealing that the growth pattern of the Power Generation sector is fundamentally distinct from other sectors.
- Optimized market segmentation using Hierarchical Clustering and validated the structure using Silhouette Score, confirming that a two-cluster model best represents customer behavior Silhouette Score 0.67.

Project Management of Fisheries Resource Mapping in Central Java Using GIS Sep 2024 – Jan 2025
- Assisted in coordinating the project team throughout all phases, from planning to final evaluation, ensuring system development aligned with milestones, timelines, and stakeholder expectations
- Conducted requirements analysis and designed solutions using modern technology architecture, including MAN networks, cloud computing, a client server model with star topology, and integrated Geographic Information System (GIS) for spatial data visualization
- Responsible for data modeling, process flow design using Business Process Model and Notation (BPMN), and the development of an interactive dashboard displaying real-time, historical, and predictive data to support evidence-based decision-making in the marine and fisheries sector

ORGANIZATION EXPERIENCE

Information Systems Student Association, Dian Nuswantoro University
Active Member Dec 2022 - Jun 2023
- Accompanying the Committee of the SSC (Sisfo Sharing and Caring) event at SMK Islamic Center Baiturrahman and Facilitated a UI/UX design practice session for high school students

SKILLS

Soft Skill:
- Adaptability, Critical Thinking, Problem Solving, Collaboration, Time Management, and Agile Mindset.

Hard Skill:
- Programming : Python, SQL, Java, PHP
- Data Tools : Microsoft Excel, Google Sheets, Looker Studio, Tableau
- Dev Tools : VS Code, Google Colab, Figma.

CERTIFICATIONS

- BNSP : KKNI Level II In Computer and Network Engineering Competence (2022).
- Dicoding : Project Management, Machine Learning, SQL, Database Management System Data, Visualization, Data Science, Artificial Intelligence (2024).
- Nvidia : Getting Started with Deep learning, Data science, Disaster Risk Monitor Using Satelite Imagery (2025).