LUTHFI ARIE ZULFIKRI

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PROFESSIONAL SUMMARY

Informatics undergraduate student at Jenderal Soedirman University (Current GPA: 3.90) with hands-on experience in machine learning, data forecasting, and sentiment analysis. Proficient in Python, C++, TensorFlow, and Scikit-Learn. Completed an internship at the Dinas Komunikasi dan Informatika Kabupaten Kuningan, contributing to predictive modeling and open data initiatives. Certified in key data science and ML topics, and highly motivated to pursue a career in AI, ML, and Data Science.

EDUCATION

JENDERAL SOEDIRMAN UNIVERSITY — Purwokerto, Central Java
Bachelor's Degree in Informatics — August 2022 – Present
Current GPA: 3.90/4.0
Relevant Coursework: Artificial Intelligence, Data Mining, Text Mining, Fuzzy Logic, Expert Systems

INTERNSHIP EXPERIENCE

DINAS KOMUNIKASI DAN INFORMATIKA KABUPATEN KUNINGAN — Kuningan, West Java
Information Technology Intern — July – August 2024

- Developed a predictive model for tourist visits in Kuningan Regency using GA-SARIMA, achieving a MAPE of 11.07%.
- Expanded open data availability by managing and publishing 60 datasets on OpenData Kuningan.
- Supported national data transparency by publishing 25 statistical metadata entries on the Indonesia Data Hub.
- Enhanced public information dissemination by developing a news module for the website koceak.kuningankab.go.id.

PROJECTS

TOURIST ARRIVAL FORECASTING OPTIMIZATION USING GA-SARIMA — July – August 2024

- Built a machine learning model to forecast tourist arrivals in Kuningan Regency using SARIMA combined with Genetic Algorithm, resulting in a MAPE of 11.07%.
- Technologies: Python, Statsmodels, Scikit-learn, DEAP
- Project URL: lutfinity.space/proyek/tourist-prediction.pdf

SENTIMENT ANALYSIS OF THE FILM VINA: SEBELUM 7 HARI — November 2024

- Developed a machine learning model for sentiment analysis of the film Vina: Sebelum 7 Hari using a hybrid SVM and PSO approach, achieving 83.04% accuracy.
- Technologies: Python, Scikit-learn, Sastrawi, TfidfVectorizer
- Project URL: lutfinity.space/proyek/sentiment-analysis.pdf

TRAFFIC VOLUME PREDICTION USING MAMDANI FUZZY LOGIC — June 2024

- Created a predictive system for traffic volume using the Mamdani Fuzzy Logic method to improve forecasting accuracy.
- Technologies: Matlab, Fuzzy Logic Toolbox
- Project URL: lutfinity.space/proyek/traffic-prediction.pdf

CERTIFICATIONS

- Tools for Data Science, IBM – September 2024 | Verification
- What is Data Science?, IBM – September 2024 | Verification
- Get Started with Python, Google – August 2024 | Verification
- Time Series Mastery: Forecasting with ETS, ARIMA, Python, Coursera Instructor Network – July 2024 | Verification
- Supervised Machine Learning: Regression and Classification, DeepLearning.AI & Standford Online – July 2024 |Verification
- Mathematics for Machine Learning and Data Science Specialization, DeepLearning.AI – April 2024 | Verification
- Programming in C++: A Hands-on Introduction Specialization, Codio – January 2023 | Verification

SKILLS

Programming Languages: Python, C++, Java, JavaScript, PHP
Frameworks & Libraries: TensorFlow, Keras, Scikit-Learn, PyTorch, DEAP, Seaborn, Matplotlib, Tensorflow
Machine Learning Techniques: Deep Learning, NLP, Predictive Modeling
Databases: MySQL, Firebase
Tools & Platforms: VS Code, Git, Matlab, RapidMiner, Microsoft Office, Google Colab, Anaconda