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Tasikmalaya, Indonesia

A Computer Science graduate from Diponegoro University with a strong passion for data science, machine learning, and AI development. Spent 3 years and 9 months exploring data analysis, software engineering, and image processing, with a deep curiosity about how machine learning models work and evolve.

I love working with data—analyzing, processing, and transforming it into meaningful insights. I'm particularly interested in predictive modeling, deep learning, and AI applications. Beyond technical work, I also enjoy visual storytelling through data visualization and graphic design, which I developed through various organizational projects. Currently, I am actively conducting a data science research project, further deepening my expertise in Al-driven analytics and model optimization.

ORGANIZATION EXPERIENCE

LPM Manunggal – University Design division

Dec 2020 - Sept 2021

LPM Manunggal is an organization engaged in journalism within the Diponegoro University.

- Create and involve on content of instagram feed design
- Create background meet, banner, and poster of event
- Create layout of magazine
- Involve in training program about journalism
- Achieved staff of the month award 2 times

Creativo.id - National Coordinator Design

Mar 2021 - Jun 2021

Creativo.id is an event that held essay writing competition on national level

- Led and managed a **design team** responsible for all visual content related to the event.
- Oversaw the design strategy and ensured consistency across all event materials.
- Designed and contributed to Instagram feed content, increasing engagement.
- Created key event assets, including virtual meeting backgrounds, banners, and posters to enhance branding.

Pelatihan Jurnalistik Tingkat Dasar (PJTD) - National

Sep 2021 - Nov 2021

Coordinator Design

PJTD is an event that train the journalist staff to become professional iournalist

- Appointed as the **design team leader**, overseeing all creative aspects of the event.
- Directed a team in developing engaging visual content for promotions and event materials.
- Designed and managed Instagram content, banners, posters, and virtual meeting backgrounds to
- maintain a strong visual identity.

EDUCATION

Diponegoro University Informatics, Cumulative GPA: 3.76/4.0 (Cum Laude) Aug 2020 – Jun 2024

TRAINING

Bootcamp React JS by Progate

Jakarta, Indonesia

Built interactive React.js applications, focusing on state management, hooks, and component-based architecture.

Jun 2022 – Jul 2022

Oracle Cloud Infrastructure Foundations I
 Gained expertise in cloud computing, storage, networking, and security on Oracle Cloud Infrastructure (OCI).

Semarang, Indonesia Mar 2023-Mei 2023

• Oracle Primavera P6 Professional Fundamentals
Learned project scheduling, resource allocation, and risk management using Primavera P6.

Semarang, Indonesia Mar 2023-Mei 2023

Hacktiv8 IBM SkillsBuild for Al and Cybersecurity
Focused on Al development, machine learning, and deep learning, with additional exposure to cybersecurity fundamentals.

Jakarta, Indonesia Feb 2024 – Jul 2024

Purwadhika Data Science Digital Talent Incubator
Hands-on experience in machine learning, Python, data visualization, and SQL, working on real-world data projects.

Jakarta, Indonesia Sep 2024 – Current

SKILLS AND INTEREST

Technical Skills

- Programming & Data Science: Python (Pandas, NumPy, TensorFlow, Keras, PyTorch, Flask), SQL, JavaScript (React.js), PHP (Laravel), HTML, CSS
- Machine Learning & AI: Deep Learning, Computer Vision, NLP, AI
- Data Analysis & Visualization: SQL, MySQL, SQL Server, PostgreSQL, Tableau, Excel, Power Bl
- Big Data & Cloud: Oracle Cloud, Google Cloud, AWS

Soft Skills

- · Leadership and teamwork ability
- Strong analytical thinking and problem-solving skills
- Effective communication (verbal & written)
- Strategic planning and initiative

Interests

- Data Science & Al Applications in business intelligence, automation, and predictive modeling
- Machine Learning Research focused on deep learning, computer vision, and NLP
- Data Visualization & Storytelling using Tableau, Power BI, and Python libraries

DATA SCIENCE PROJECT

Optimization Of U-Net Model on Image Segmentation Of Low Grade Glioma Brain Tumors – Onsite, Semarang, ID

Apr 2024 – Jun 2024

https://www.kaggle.com/code/magisni/lgg-unet-optimization

Image Segmentation

This research aimed to optimize the U-Net model for segmenting Low-Grade Glioma (LGG) brain tumors, focusing on hyperparameter tuning to achieve high-accuracy segmentation. The goal was to develop a robust and efficient segmentation approach that could enhance early diagnosis and genomic subtype identification, making the process faster, cost-effective, and free from inter-reader variability.

Key Contributions & Achievements

This research contributes to medical AI applications by improving tumor segmentation accuracy, which is crucial for automating brain tumor diagnosis and supporting precision medicine.

- Developed and optimized a U-Net-based segmentation model to improve tumor boundary detection.
- Achieved a 95% Dice Coefficient Score, demonstrating high segmentation accuracy.
- Utilized TCGA Low-Grade Glioma Brain Tumor Dataset for model training and evaluation.
- Implemented advanced deep learning techniques using Python, TensorFlow Keras, and Segmentation Models library.

Explored various parameter optimizations to enhance the model's performance and reliability.

Depression Sentiment Analysis with Bi-LSTM Model –Remote, Jakarta, ID Sentiment Analysis

This project focused on detecting anxiety and depression in Indonesian social media users through AI-powered sentiment analysis. By leveraging Natural Language Processing (NLP) and deep learning, the goal was to classify depressive statements and provide early warning indicators for mental health support.

May 2024 - Jun 2024

Key Contributions & Achievements

This project demonstrates the potential of AI in mental health monitoring, helping to detect early signs of depression through automated sentiment analysis.

- Developed and trained a Bi-LSTM sentiment analysis model to classify depression-related posts.
- Achieved a 68% F1-Score, balancing precision and recall for real-world applicability.
- Utilized the Twitter Depression Dataset from Kaggle for model training and evaluation.
- Implemented NLP techniques using Python, TensorFlow, and WordCloud for data processing and visualization.
- Successfully deployed the model on IBM Watson, making it accessible for real-time analysis.

NYC TLC Trip Data Analysis -Remote, Jakarta, ID

https://medium.com/@magisni2001/data-analysis-on-taxi-trip-records-a8fe5e45b4b9

Nov 2024 - Nov 2024

Data analysis and visualization

This project analyzed New York City Taxi & Limousine Commission (TLC) trip data to uncover critical insights into passenger behavior, revenue trends, and service optimization. By leveraging data-driven strategies, this analysis aimed to enhance fleet distribution, maximize revenue, and improve passenger experience while also identifying factors influencing tipping behavior.

Key Contributions & Achievements

This project contributes to transportation analytics and urban planning, helping taxi operators make data-driven decisions for better public mobility services in NYC.

- Analyzed NYC Taxi & Limousine Commission (TLC) trip data to optimize fleet distribution, revenue, and customer experience using Python, SQL, geospatial analysis, and Tableau for visualization.
- Optimized Fleet Deployment: Increased taxis in high-demand areas (Manhattan, Queens) during peak hours and reduced presence in low-demand zones (Staten Island).
- Improved Passenger Experience: Recommended e-wallet integration, better app booking systems, and loyalty programs to increase engagement.
- Revenue Optimization: Suggested premium pricing for high-revenue routes and off-peak discounts to boost ridership.
- Encouraged Tipping: Proposed in-app tipping reminders and transparent fare structures to increase driver earnings.

Bike Sharing Regression Prediction –Remote, Jakarta, ID https://qithub.com/magis-git/bike_sharing_regression_prediction

Regression Prediction

Dec 2024 – Dec 2024

Developed a predictive model to forecast daily bike rental demand based on environmental and seasonal factors, leveraging Python, Pandas, and machine learning algorithms.

Key Contributions & Achievements

This project demonstrated how machine learning can drive smarter decision-making in urban mobility.

- Developed a High-Accuracy Demand Prediction Model: Achieved an R² of 0.956 and MAPE of 22%, with CatBoost outperforming other models in capturing complex demand patterns.
- Optimized Model Performance: Implemented hyperparameter tuning (iterations=1400, learning_rate=0.06, depth=8) for better generalization and stability across different demand levels.
- Feature Impact Analysis: Identified peak hours, temperature, season, and weather conditions as the most influential factors in bike rental demand.

- Business Impact: Provided insights for fleet optimization, ensuring better bike allocation, reducing operational inefficiencies, and maximizing revenue opportunities.
- Strategic Recommendations: Suggested targeted marketing campaigns, improved demand predictions for low-demand scenarios, and enhanced model evaluation metrics for business-aligned accuracy.

Leveraging Few-Shot Learning for Automated Detection of UI Smells in Mobile UI Designs –Remote, Semarang, ID

https://www.kaggle.com/code/magiskaggle/dan-few-shot-1-new

Dec 2024 - Jan 2025

Deep Learning/AI

This research introduces an Al-driven approach for detecting UI smells—subtle design flaws that impact usability—in mobile applications. By leveraging few-shot learning, the model can identify inconsistencies in UI designs even with limited labeled data, making it a scalable solution for real-world applications. Utilizing deep learning-based feature extraction with EfficientNet-B3, MobileNet-V3, and CNNs, This innovation helps UX designers, app developers, and usability testers automate UI evaluation, ensuring intuitive and user-friendly interfaces without extensive manual analysis.

Key Contributions & Achievements

This project bridges the gap between AI and UX design, providing an efficient, scalable, and data-driven solution for automating UI quality assessment in mobile applications.

- Developed an Al-powered UI smell detection framework to enhance usability evaluation and mobile UI design analysis.
- Achieved 90.14% accuracy with EfficientNet-B3 in a 5-shot learning setup, outperforming existing stateof-the-art methods.
- Designed an Adaptive Subspace Classifier to improve classification performance in low-data scenarios.
- Implemented deep learning-based feature extraction using CNN, MobileNet-V3, and EfficientNet-B0-B5, enabling robust UI pattern analysis.
- Utilized the Enrico dataset to evaluate and validate the model across diverse mobile UI layouts.
- Automated the identification of UI inconsistencies, reducing the need for manual usability testing and speeding up UI/UX refinement processes.

OTHER PROGRAMMING PROJECT

Bina Amal Junior High School Student Discipline Management System – Remote, Semarang, ID

Jan 2023 – Apr 2023

https://github.com/magis-git/Sistem Pengelolaan Laporan Tata Tertib

Laravel Developer

Developed a Laravel-based system to streamline student discipline management at SMP IT Bina Amal. This platform enables teachers to efficiently record, track, and manage student violations, automating point calculations and generating comprehensive reports.

- Built a full-stack web application using Laravel and MySQL for seamless data management.
- Developed an automated point recapitulation system to track student violations.
- Implemented bulk input functionality for managing multiple student records efficiently.
- Integrated an Excel export feature for generating detailed disciplinary reports.

FAQ Management on Website id-career.center – Onsite and Remote, Semarang, ID

Jun 2023 – Nov 2023

https://id-career.center/page/about-us

Laravel Developer

Developed and implemented an FAQ management system for id-career.center, a job commerce platform connecting students and job seekers with companies.

- Built a dynamic FAQ management system using Laravel and MySQL for efficient content updates.
- Designed and implemented the website UI using Bootstrap and AJAX for a responsive and interactive experience.
- Developed an admin panel to manage FAQs, ensuring seamless content updates.
- Integrated version control and team collaboration via GitHub.