RESKY ADHYAKSA

Full Stack Web Developer | Data Scientist

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Detail-oriented and fast learner web developer with hands-on experience in building scalable, responsive, and high-performance web applications using modern frameworks such as Next.js, React.js, and Express.js. Proficient in both frontend and backend development, including database design with PostgreSQL/MySQL and server integration. Successfully delivered multiple end-to-end projects such as e-commerce platforms, interactive dashboards, and SNMP-integrated monitoring systems.

Education

Telkom University - Bandung, Jawa Barat, Indonesia — Aug 2020 - Mei 2025

Bachelor's degree in informatics, 3.08/4.00

- Successfully developed an application program for a final project, which has been officially licensed through e-Hak Cipta, as a requirement for a bachelor's degree in Informatics. The program is titled "Sentiment Analysis Based on Machine Learning for Social Media Posts on Earthquake Disasters."
- Published a paper titled "Application of VGG16 in Automated Detection of Bone Fractures in X-Ray Images." This research, published in the Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi) SINTA 2, explores the application of deep learning techniques, specifically the VGG16 model, to enhance the accuracy and efficiency of automated bone fracture detection in X-ray images.

Experiences

CV. Suhuf Kertaseni Nusantara - Bandung, Jawa Barat, Indonesia — July – Sept 2023

Software Developer

- Developed an Admin Page Management System, implementing a responsive and intuitive dashboard using Next.js, ensuring efficient product and content management.
- Integrated dynamic data management features, allowing administrators to update, edit, and track product inventory seamlessly.
- Implemented UI/UX designs for the main Suhuf Kertaseni website, enhancing visual appeal, accessibility, and user engagement.
- Optimized website performance using server-side rendering (SSR) and static site generation (SSG) for faster load times and improved SEO.
- Collaborated with backend developers and designers to align the UI with business requirements and user needs, ensuring a cohesive and effective platform.

Bangkit Academy 2023 – Mobile Development - Bandung, Jawa Barat, Indonesia — Aug – Dec 2023

Studi Independen Kampus Merdeka

- Achieved Top 10 Company-based Capstone Project out of 24 Final Projects (2023), demonstrating excellence in mobile application development, problem-solving, and real-world implementation of technology solutions.
- Selected as the Best Team at Bangkit Company Capstone Project in collaboration with Fishku, showcasing strong teamwork, innovation, and effective application of industry best practices.
- Developed a Kotlin-based mobile application for Fishku, integrating machine learning features, including a recommendation system model to enhance user experience and advanced filtering algorithms for better product discovery and decision-making.

Project

MonitorX – Server Monitoring Integrated SNMPv3 – Next.js, PostgreSQL, JavaScript — Feb 2025 – Mar 2025

Full-Stack Web Developer

Developed and implemented a server monitoring system with SNMPv3 integration, enabling real-time tracking of server performance and availability. Key contributions include:

- Designed and developed the full-stack architecture, handling both front-end and back-end development for a responsive and efficient monitoring dashboard.
- Implemented monitoring features for SLA, ping, and response time, providing real-time insights into server performance and uptime.
- Integrated SNMPv3 protocol, allowing the system to retrieve and display disk usage, CPU usage, and RAM usage from servers with SNMP enabled.
- Developed a data storage system using Sequelize ORM with Express.js and PostgreSQL, ensuring structured and efficient data management.
- Created a user-friendly dashboard, visualizing real-time server performance metrics with interactive charts and logs.
- Optimized API requests and database queries, improving data retrieval efficiency and system responsiveness.

Disaster Sentiment Analyst Deep Learning Classification – Deep Learning Application, Python — Oct 2024 – Jan 2025

Machine Learning Engineer

Developed and implemented a deep learning-based system for automated diabetic ulcer classification using thermal imaging, focusing on improving classification accuracy and efficiency. Key contributions include:

- Developed a classification model for diabetic ulcer detection using Support Vector Machine (SVM) on thermal imaging data.
- Implemented multiple feature extraction techniques, including CED, GLCM, KMeans, LBP, LBP-GLCM, and HOG, to determine

the most effective method for classification.
- Achieved 95% classification accuracy using HOG (Histogram of Oriented Gradients), outperforming other feature extraction techniques.
- Preprocessed thermal image data, applying noise reduction and normalization to enhance feature extraction quality.
- Optimized the SVM model by fine-tuning hyperparameters, improving classification reliability and reducing false positives.
- Evaluated model performance using precision, recall, F1-score, and confusion matrix, ensuring robust and reliable diabetic ulcer detection.

Diabet Ulcus Thermal SVM Classification – **Deep Learning Application, Python** Sept 2024 – Jan 2025
Machine Learning Engineer

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- Evaluated model performance using precision, recall, F1-score, and confusion matrix, ensuring robust and reliable diabetic ulcer detection.

Automated Bone Fractures Detection using VGG16 – **Deep Learning Application, Python** Sept 2024 – Feb 2025
Machine Learning Engineer

Developed and implemented a deep learning-based system for automated bone fracture detection in X-ray images, focusing on improving classification accuracy and efficiency. Key contributions include:
- Designed and trained a convolutional neural network (CNN) using VGG16 to classify bone fractures from X-ray images with improved accuracy.
- Performed data augmentation and preprocessing techniques, including image normalization and enhancement, to improve model robustness.
- Implemented a transfer learning approach using pre-trained VGG16 weights to optimize feature extraction and accelerate training convergence.
- Evaluated model performance using precision, recall, F1-score, and AUC-ROC, ensuring high diagnostic reliability.
- Conducted comparative analysis with traditional machine learning methods, demonstrating the effectiveness of deep learning in medical imaging applications.

Data Visualization MBKM Program Enrollment Dashboard – **Google Looker Studio** October 2024
Data Analyst

Developed an automatic sentiment labeling system using a lexicon-based approach, enabling sentiment classification based on predefined word sentiment scores. This system processes text data, assigns sentiment labels, and determines sentiment polarity based on compound scores. Key contributions include:
- Created and structured a lexicon-based sentiment dictionary, storing positive and negative word scores in a TSV file for efficient classification.
- Implemented sentiment classification logic that calculates compound sentiment scores for each input text.
- Applied a rule-based labeling system, where text with a compound score < 0 is labeled as negative, while > 0 is labeled as positive.
- Preprocessed text data, including tokenization, lowercasing, and stopword removal, to enhance classification accuracy.
- Developed a scalable sentiment analysis pipeline, allowing automated labeling of large-scale datasets based on lexicon scoring.

Automatic Sentiment Analysist Label using Lexicon Based – **AI-based Text Classification, Python** Aug – Sept 2024
Machine Learning Engineer

Developed an automatic sentiment labeling system using a lexicon-based approach, enabling sentiment classification based on predefined word sentiment scores. This system processes text data, assigns sentiment labels, and determines sentiment polarity based on compound scores. Key contributions include:
- Created and structured a lexicon-based sentiment dictionary, storing positive and negative word scores in a TSV file for efficient classification.
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- Developed a scalable sentiment analysis pipeline, allowing automated labeling of large-scale datasets based on lexicon scoring.

Automatic Emotion Labeling using Naïve Bayes – **AI-based Text Classification, Python** Oct – Dec 2023
Machine Learning Engineer

Developed an automatic sentiment labeling system using a lexicon-based approach, enabling sentiment classification based on predefined word sentiment scores. This system processes text data, assigns sentiment labels, and determines sentiment polarity based on compound scores. Key contributions include:
- Created and structured a lexicon-based sentiment dictionary, storing positive and negative word scores in a TSV file for efficient

classification.

- Implemented sentiment classification logic that calculates compound sentiment scores for each input text.
- Applied a rule-based labeling system, where text with a compound score < 0 is labeled as negative, while > 0 is labeled as positive.
- Preprocessed text data, including tokenization, lowercasing, and stopword removal, to enhance classification accuracy.
- Developed a scalable sentiment analysis pipeline, allowing automated labeling of large-scale datasets based on lexicon scoring.

Management Suhuf Kertaseni Nusantara – Dashboard Admin Website – Next.js, JavaScript Aug – Oct 2023

Front End Developer

Developed an admin dashboard for managing e-commerce products using Next.js, providing seamless product tracking, inventory management, and website analytics. Key contributions include:

- Designed and built a responsive admin interface using Next.js, ensuring an intuitive user experience for administrators.
- Developed a dynamic product management system, enabling administrators to add, edit, and delete products efficiently.
- Integrated stock monitoring and sales tracking, allowing real-time updates on product availability.
- Implemented data visualization for website analytics, displaying visitor counts, product views, and sales trends.
- Designed an interactive dashboard layout with a sidebar navigation system for seamless access to different sections.

Suhuf Kertaseni Nusantara – E-Commerce Website Development – Next.js, JavaScript Aug – Oct 2023

Front End Developer

Developed an e-commerce website using Next.js to showcase and promote the company's products, enhancing online visibility and user engagement. Key contributions include:

- Designed and developed a responsive and interactive front-end using Next.js, ensuring a seamless shopping experience.
- Implemented a dynamic product catalog, enabling users to browse and explore the company's offerings efficiently.
- Integrated API calls for real-time product updates, ensuring accurate and up-to-date information on the platform.
- Developed a user-friendly navigation and filtering system, allowing customers to find products effortlessly.
- Enhanced UI/UX design with modern styling and accessibility features to improve customer experience.

Organizational

INTERFEST – Himpunan Mahasiswa Telkom University - Bandung, Indonesia October - Nov 2021

Staff Stage Division

- Collaborated with team members to ensure comprehensive preparation and organization of competition venues, supporting the successful execution of events attended by over 200 participants.
- Oversaw key aspects of event operations to foster a dynamic and engaging environment for both participants and audiences.
- Managed event flow and stage operations, including coordinating the rundown, technical requirements, and stage setup for guest star performances to ensure smooth and professional execution.

Skills

- **Technical Skills**:
  - **Proficient**: Python, Next.js, React.js, Express.js, PostgreSQL, MySQL, Firebase Firestore, RESTful API Development, Git & GitHub, Responsive Web Design, IT Troubleshooting (PCs, Laptops, Scanners), Network Troubleshooting (LAN).
  - **Experienced**: Sentiment Analysist, NLP (Natural Language Processing), RNN, LSTM, ANN, CodeIgniter 4, Linux Server Setup & Management, Google Cloud (hosting & deployment), UI/UX Design with Figma, Adobe Photoshop, Adobe Illustrator, SNMP Integration, Data Visualization, Server Administration, Google API.
  - **Skilled**: Full-Stack Mobile Development, Full-Stack Web Development, E-Commerce Platform Development, Dashboard & Admin Panel Design, Authentication & Role Management, Cloud Computing, Version Control Workflows, Deployment Optimization.
- **Soft Skills**: Adaptability, Fast Learning, Effective Communication, Teamwork, Problem-Solving Skills, Detail-oriented, Creative Thinker.
- **Languages:** English (Conversational Proficiency), Bahasa Indonesia (Professional).
- **Certification :** Belajar Dasar Git dengan GitHub - Dicoding, Belajar Fundamental Aplikasi Android - Dicoding, Belajar Prinsip Pemograman SOLID – Dicoding, Memulai Pemograman Dengan Kotlin – Dicoding, Belajar Membuat Aplikasi Android untuk Pemula – Dicoding, Pengenalan ke Logika Pemograman (Programming Logic 101) – Dicoding, Bangkit Academy Cohort Batch 2 Mobile Development – GoTo, HackFest 2024 Participant – Google, Solution Challenge – Google Developer Student Clubs, AI Talks: Talenta AI dan Datascience Mendisrupsi Dunia – Fast Digitalent Festival 2023.