NICHOLAS WIRA ANGKASA

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ABOUT ME

Computer Science student at BINUS University with strong interest in Artificial Intelligence, Data Analysis, Data Scientist, Machine Learning, and Deep Learning. Experienced in writing and photography through involvement in campus journalism organization. Skilled in problem-solving, teamwork, and communication. Currently seeking opportunities to apply technical and analytical skills in dynamic projects and grow within the tech industry.

EDUCATION

BINUS UNIVERSITY
Jakarta

Computer Science Major
Sept 2023 - Present

Streaming in Intelligent System

Cumulative GPA (1st - 5th Semester): 3.48 / 4.00

SMAS TRI RATNA SIBOLGA
Sibolga

Mathematics and Science
Aug 2020 - Jun 2023

Final Score: 92.10

ORGANIZATIONAL EXPERIENCE

NIPPON CLUB
Jakarta

Journalistic Division Activist
Dec 2024 - Present

- Contributed as an active member of the journalism division in the campus Nippon Club organization.
- Wrote and edited articles covering various campus activities and cultural events.
- Served as a photographer to document organizational events and provide visual content for articles and publications.
- Collaborated with team members to ensure timely publication and high-quality content for the organization's media platforms.

PROJECTS

ATTENDANCE SYSTEM WITH FACE RECOGNITION 🔗

Developer
Nov 2024 – Jan 2025

- Developed an automated attendance system using computer vision to identify individuals through face recognition.
- Implemented face detection, grayscale preprocessing, face cropping, and feature extraction.
- Utilized LBPH Face Recognizer for identity classification and attendance logging.
- Reduced manual attendance errors by automating the identification process.

Tech stack: Python, OpenCV, Haar Cascade, LBPH, NumPy

HOUSE PRICE PREDICTION 🔗

Developer
May 2025 – June 2025

- Built a regression model to predict house prices based on multiple numerical features.
- Conducted data cleaning, exploratory data analysis, and feature engineering.
- Trained regression models and evaluated performance using error metrics.
- Visualized relationships between features and predicted prices.

Tech stack: Python, Pandas, NumPy, Scikit-learn, Linear Regression, Matplotlib

MACHINE LEARNING SPAM DETECTION 🔗

Developer
Apr 2025 - Present

- Built a spam classification system using traditional machine learning algorithms.
- Performed text preprocessing including tokenization, stopword removal, and TF-IDF feature extraction.
- Trained and evaluated classifiers such as Random Forest.
- Achieved reliable performance for spam vs non-spam classification.

Tech stack: Python, Scikit-learn, TF-IDF, Random Forest, Pandas, Matplotlib

CUTIE CHATTER – AI CHATBOT 🔗

Developer
Apr 2025 – June 2025

- Developed a desktop-based AI chatbot application using Python.
- Integrated a large language model via Ollama (DeepSeek-R1) for conversational responses.
- Implemented sentiment analysis to detect user emotional tone.
- Added OCR and text-to-speech modules to support multimodal interaction.
- Designed modular backend architecture for chatbot logic and UI integration.

Tech stack: Python, LLM (DeepSeek-R1), Ollama, NLP, Sentiment Analysis, OCR, Text-to-Speech

DEEP LEARNING SPAM DETECTION 🔗

Developer
Apr 2025 - Present

- Developed a deep learning-based spam detection model to capture semantic and contextual patterns in text.
- Applied text vectorization and word embedding techniques.
- Trained neural network models to improve classification accuracy over classical ML approaches.
- Evaluated model performance using accuracy and loss metrics.

Tech stack: Python, TensorFlow, Keras, Sastrawi, TF-IDF, Word Embeddings, IndoBERT

SKILLS

- Languages: English (Intermediate), Indonesian (Native)
- Programming: C, Java, Python, SQL, JavaScript
- AI / Ml Frameworks: TensorFlow, Keras, PyTorch, scikit-learn
- NLP : NLTK, spaCy, Gensim, TextBlob, Sastrawi, IndoBERT
- Speech Recognition: Librosa, Wave2Vec 2.0, PyDub
- Web: HTML, CSS, React.js, Tailwind CSS, Figma, MySQL
- Computer Vision: OpenCV (cv2), LBPH
- Network: Cisco Packet Tracer
- DevOps Tools: Git, GitHub, Docker
- Metrics Visualization: Matplotlib, Seaborn
- Office Tools: Word, Excel, PowerPoint
- Media Editing: Photoshop, Lightroom, Canva, Capcut
- Soft Skills: Teamwork, Time Management, Communication, Critical Thinking, Adaptability, Leadership