# KASIMIRUS DERRYL ODJA

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I'm an **AI/ML Engineer & Data Scientist** with 1 year of experience. I'm specializing in Intelligent Systems and Data. I honed my skills with some ML/DL, NLP & LLM projects, applied analytical thinking to data, visualization, and statistics to solve complex problems. I want to explore my skills and get more experience in my specialized fields. Beyond technical expertise, I bring strong public speaking skill, and a proven ability to thrive in collaborative environments. I've taken on roles requiring teamwork, leadership, and project management, contributing to and guiding projects from concept to execution. I am now seeking to expand my expertise in Artificial Intelligence, and Data Science to further enhance my skills and contribute to innovative research and projects.

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## EDUCATION

**BINA NUSANTARA UNIVERSITY**                                                                                          **2022 - 2026**

(Computer Science) (IPK 3.49/4.0)

## ORGANIZATION & ECPERIENCE

**Web Developer (Internship) - PT. Astra Otoparts Tbk.**                                         **February 2024 - Present**
- Contribute in continuing the internal analytic report website named EMBA SINTA using Laravel & PHP
- Make a website for interview process with anti-cheating features like eye tracking and tab changes detection using NextJS, Python, Typescript and Supabase

**Web Developer (Freelance) - KOMSOS Kosambi Baru**                                                **July 2024 - Present**
- Collaborate with the team to create the Paroki Kosambi Baru static website using NextJS, Javascript and Tailwind
- Collaborate with core team to create a Zaitun article website and CMS for admin using NextJS, Javascript, Tailwind , Go, and MySQL

**Public Relation Division - UKM Band Binus**                                                    **April 2023 - November 2024**
- Collaborate & assist organizations in promoting UKM to new students at EXPO BINUSIAN 2023.
- Perform at EXPO BINUSIAN 2023, Pacific Garden Square, and FYPL 2024 as a vocalist and pianist

## PROJECTS

- **EduPredScore**: A simple Machine Learning application that can predict student scores based on several interrelated features. Through the application of regression concepts in machine learning, aim to provide users with predictions and insights regarding their educational performance. *Tools: Python, Scikit-Learn, Streamlit.*
- **Mental Illness Detection with Sentiment Analysis**: NLP project focusing on classifying five key categories: addiction, anxiety, autism, depression, and schizophrenia. I employed a comparative approach, evaluating the effectiveness of various Machine Learning and Deep Learning models. *Tools: Python, Scikit-Learn, TensorFlow, Keras, NLTK, Streamlit.*
- **Speech Emotion Classification**: Building a CNN, LSTM, CLSTM models to classify 5 categories emotions (angry, disgust, fear, happy, neutral) from CREMA-D with the highest accuracy of 83% using CLSTM models, Using feature extraction techniques like MFCC and data augmentation, along with training and evaluating the models on the processed dataset. *Tools: Python, Scikit-Learn, TensorFlow, Keras, Librosa.*
- **Web Lingkungan Maria Goreti**: Web Lingkungan Maria Goreti provides comprehensive information about the Maria Goreti community and its activities. *Tools: NextJS, TailwindCSS.*
- **Simple RAG & Chatbot with Llama 3.2**: This project implements a retrieval-augmented generation (RAG) chatbot using Llama 3.2. The flow begins with a user's question, which is embedded using the OLLAMA embedding model. The embedding is compared to data stored in a FAISS vector database using cosine similarity to retrieve the most relevant context. This context is then passed to Llama 3.2-1b, which generates the final response based on the retrieved information. *Tools: Ollama, FAISS, Llama 3.2-1b, langchain, Streamlit.*
- **Pothole Detection with Traditional Model (Random Forest & SVM):** Computer Vision project focusing on extracting the pothole features using Gabor, canny, GLCM, HOG, ColorHist, findContour and training with random forest dan SVM Modelserta di evaluasi dengan IoU dan MSE. *Tools: Python, CV2, Scikit-Learn,*

## CERTIFICATION & APPRECIATION

**Instructor-Led Learning for Azure AI Basic Fundamentals Batch 3 - (**GreatNusa**)** **July 2025**

**Prompt Engineering for Everyone - (**Cognitive Class **IBM)** **November 2024**

**Building Transformer-Based Natural Language Processing Applications - (NVDIA)** **October 2024**

**Advanced Machine Learning Analysis for Marketing - (**Cognitive Class **IBM)** **October 2024**

**Certificate of Appreciation & Oral Presentation - (**The 9th **ICCSCI)** **August 2024**

**Finalists in the Microsoft AI for Accessibility Hackathon - (**Microsoft ASEAN AI for Accessibility "**AI4A**" Hackathon**)** **June 2024**

## PUBLICATION

**"Mental Illness Detection Using Sentiment Analysis in Social Media" - (**Procedia**)** **September 2024**

## SKILLS

**Machine Learning & Deep Learning:** Numpy, Scikit-Learn, Pytorch, Tensorflow, Keras, MLFlow

**NLP & Computer Vision:** NLTK, LangChain, Ollama, OpenCV

**Data Science & Data Analyse:** Numpy, Pandas, Seaborn, Matplotlib, Tableau

**Web Framework:** NextJS, TailwindCSS, ReactJS, Gin

**Programming Language:** Python, Java, JavaScript, TypeScript, C/C++, Go

**Database:** MySQL, SQLite, Firebase, PostgreSQL

**Tools:** Git, Figma, Visual Studio Code, Android Studio