I GEDE WAHYU DIANSA PUTRA

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Undergraduate Computer Science student at BINUS University specializing in Machine Learning and Deep Learning. Experienced in developing end-to-end NLP pipelines, fine-tuning Transformer architectures, and engineering custom feature extraction models using PyTorch and Python. Strong foundation in algorithmic complexity, data structures, and secure software development.

Technical Skill

- Machine Learning & Deep Learning: PyTorch, Hugging Face Transformers, Scikit-Learn, Fine-Tuning, Feature Extraction, Model Evaluation, n8n workflow.
- NLP & Data Processing: Pandas, NumPy, NLTK, Stanza, Tokenization, Data Scraping, Data Cleaning.
- Programming & Systems: Python, C/C++, PHP, SQL, Linux/Ubuntu, Git/GitHub.
- Core Competencies: Algorithms & Data Structures, Model Optimization, REST APIs.

Pendidikan

BINUS University - **Jakarta, Indonesia** Aug 2023

Bachelor of Computer Science, 3.11/4.00

- Relevant Coursework: Algorithms & Programming, Data Structures, Object-Oriented Programming, Database Systems, Artificial Intelligence.

Projects and Research

Indonesian Discourse Authorship Attribution Framework

PyTorch, Transformers, NLTK

- Built an automated web scraping and preprocessing pipeline to collect and clean a corpus of 4,000+ domain-specific news articles.
- Designed a hybrid neural network architecture combining 768-dimensional pretrained Transformer embeddings (IndoBERT) with hand-crafted stylometric text features.
- Evaluated multi-class classification performance, achieving superior classification accuracy over traditional baseline models.

Slang Search & Text Filtering Engine

C, Data Structures

- Implemented a memory-efficient lexicon lookup engine in C utilizing Binary Search Trees (BST) for low-latency string processing.
- Designed prefix-matching algorithms and targeted subtree traversal achieving efficient exact-word search with O(h) time complexity.
- Optimized in-order traversal routines for automated vocabulary sorting and dynamic dictionary memory management.

ADDITIONAL EXPERIENCE & ACHIEVEMENTS

- **Vulnerability Assessment & Penetration Testing**: Conducted hands-on mobile and network vulnerability discovery, utilizing Kali Linux tools to identify secure code flaws and architectural risks.
- **Introduction to Generative AI – IBM SkillsBuild** (2024): Completed coursework covering foundational Generative AI concepts, large language models (LLMs), and practical AI use cases.