

Valentino Allen Prasetyo

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Computer Science student in the Artificial Intelligence stream at BINUS University with hands-on experience fine-tuning transformer models and running structured ML experiments: preparing and annotating datasets, benchmarking against baselines, testing results for statistical significance, and documenting findings in research-paper format. Looking for an AI Engineer internship where I can do research, experimentation and prototyping on real models and data with an experienced team.

EDUCATION

BINUS University, Bachelor of Computer Science, Artificial Intelligence stream Tangerang · 2024 – 2028 (expected)
GPA 3.47 / 4.00. Coursework: Machine Learning, Natural Language Processing, Computer Vision, Computational Biology, Algorithm Design and Analysis, Data Structures, Database Technology, Software Engineering, Discrete Mathematics.

AI RESEARCH & EXPERIMENTATION PROJECTS

Aspect-Based Sentiment Analysis, Indonesian Reviews · *NLP course project, team of 2* 2025/26 · [GitHub](#)

- Framed aspect detection and sentiment as one four-class, sentence-pair task over five aspects, so a single model can pick up aspects a review never names (e.g. "arrived dented" = packaging, negative).
- Built the AI-purpose dataset: co-annotated all 1,500 Tokopedia reviews with dual labelling and consensus, and wrote the preprocessing pipeline for informal, code-switched Indonesian text.
- Fine-tuned IndoBERT and IndoBERTweet with Hugging Face Transformers (PyTorch) and benchmarked them against TF-IDF + SVM/LR baselines: sentiment macro-F1 0.79 vs 0.35–0.54, and 0.90 recall on implicit aspects.
- Designed the evaluation suite: cross-domain checks for generalisation and McNemar significance tests, which showed the two BERT models were statistically tied. Documented the methodology and results in an IEEE-format report.

Early Student Dropout Prediction (EarlyDrop) · *ML course project, team of 3*

- Trained a Random Forest on enrollment-time features only, to prevent data leakage, and tuned the decision threshold to 0.40 to favour recall: 0.838 recall, 0.537 precision, 0.775 ROC-AUC on the held-out test set.
- Shipped the model as a Streamlit prototype that presents each result as a risk signal for human review rather than a decision.
- Follow-up course research paper (unpublished, 2026) benchmarking Gaussian Naive Bayes and XGBoost on pre-acceptance variables; I produced the analysis visualizations and co-edited the manuscript.

FootFit · *Computer Vision course project, team of 4*

[GitHub](#)

- Built the React frontend and part of the Python backend for a service that estimates foot size from a single photo, using a bank card in frame as the scale reference.

EXPERIENCE

Freelance Web Developer · *Independent*

Remote, Indonesia · 2024 – present

- Deliver websites for Indonesian small businesses end to end, from scoping with non-technical owners to launch and post-launch support, working independently with full ownership of each project.
- **NataTeknik** (hardware retail, Bali, 2025 – present): built the product-catalog storefront with Vite; improved search visibility with canonical tags, 301 redirects and per-route metadata. natateknik.com
- **Pradipa Indonesia** (leather goods, Surabaya, 2025): designed and built the brand landing page with React and Vite. pradipaindonesia.com

SKILLS

Programming: Python, TypeScript, JavaScript, SQL, C++

ML and deep learning: PyTorch, Hugging Face Transformers, scikit-learn, pandas, NumPy, Matplotlib, OpenCV

Research practice: dataset preparation and annotation, baseline benchmarking, evaluation metrics (macro-F1, recall, ROC-AUC), statistical significance testing, IEEE-format technical writing

Tools: Git, Docker, Google Colab and Kaggle GPU, Streamlit, FastAPI, React, Next.js, Supabase / PostgreSQL

Languages: Indonesian (native), English (professional working proficiency)