Bernard Santosa

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EDUCATION

Binus University | *Bachelor of Computer Science*   *Sep 2023 - Present*
- Cumulative **GPA**: 3.91 / 4.00
- Relevant Coursework: Algorithm and Programming, Data Structures, Machine Learning, Deep Learning, Software Engineering, Object Oriented Programming, Database Technology

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TECHNICAL SKILLS

Programming Languages: Python, Java, C, JavaScript, TypeScript, HTML/CSS
Frameworks & Libraries: React, Flask, Scikit-learn, Pandas, Laravel, TailwindCSS
Developer Tools: Vite, Git, GitHub, Google Colab, Power BI

PROJECT

RECourse | *React, Python, Flask, Scikit-learn, Pandas, TypeScript, TailwindCSS*   *Sep 2025*
- Develop a course recommendation web app by integrating Python backend with a modern front end with React, TypeScript and TailwindCSS
- Implemented a content-based recommendation system using cosine similarity and vectorization to analyze user input and provide relevant courses. The model also uses clustering to enhance its recommendation accuracy.
- Designed and deployed a RESTful API using Flask to serve a machine learning model, creating efficient endpoint for real-time communication between frontend client and backend server.

AI Job Salary Prediction | *Python*, *Scikit-learn, Pandas*   *Oct 2025*
- Analyzed dataset quality by checking missing values, outliers, and data types (categorical/numerical) to identify key features and target variable
- Preprocessed data for model training, including standardizing continuous values and encoding categorical features
- Built and optimized an XGBoost Regressor model to predict AI job salaries (R^2 = 0.9), identifying key factors such as skills, tools, and company size that influence compensation

Restaurant Recommendation and Sentiment Analysis | *Python*, *Scikit-learn, Pandas*   *June 2025*
- Cleaned and preprocessed restaurant review dataset (stopword removal, punctuation cleaning, lemmatization, stemming)
- Developed a sentiment analysis model using Naïve Bayes to predict positive or negative feedback
- Designed a recommendation engine using TF-IDF and Cosine Similarity to suggest restaurants based on review similarity

Coursera Course Analysis Dashboard | *Power BI*   *May 2025*
- Analyzed the 'Coursera Courses Dataset 2021' to identify key trends in course offerings, difficulty levels, and student ratings
- Developed a comprehensive, interactive dashboard in Power BI from scratch to visualize data patterns effectively
- Designed multiple linked visualizations (e.g., bar charts, word cloud, filters) to provide actionable insights for users selecting new courses

Trashure | *Laravel, PHP, PostgreSQL*   *Feb 2025 - May 2025*

- Developed and implemented a REST API using Laravel (PHP) to handle user authentication (registration, login) and manage user profile data
- Architected the database structure by designing the Entity Relationship Diagram (ERD) and Use Case Diagrams
- Translated UI/UX designs from Figma into responsive frontend components using TailwindCSS

LEADERSHIP

OSIS SAPRAS – EFATA SCHOOL (SARANA DAN PRASARANA)   *Jan 2022 – Nov 2022*

- Managed equipment inventory and coordinated logistics for all school-wide events.
- Collaborated with student council divisions to plan and execute event technical requirements.

ADDITIONAL

HCIA-AI (Huawei Certified ICT Associate - Artificial Intelligence) V3.5   *Sep 2024*

- Course certificate demonstrating foundational knowledge in AI principles, machine learning, deep learning, and industry applications using the Huawei Ascend platform.