Panky Bintang Pradana Yosua

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OBJECTIVE

Motivated Computer Science undergraduate student with a strong foundation and a keen interest in machine learning. Experienced in analyzing and building machine learning models in Python for tasks such as Credit Risk Classification, Emotion Detection, and Alzheimer Diagnosis. Seeking opportunities in data science or machine learning fields.

CORE SKILLS

Data Science, Data Analysis, Machine Learning, Data Engineering.

EDUCATION

Jenderal Soedirman University — Purwokerto, Jawa Tengah
Informatics/Computer Science — GPA: 3.92/4.00 — August, 2022-Now
Relevant Courseworks: Programming and Algorithms, Artificial Intelligence, Data Mining, Statistics and Probabilistic, Pattern Recognition, Text Mining, and Data Warehouse.

Public Senior High School 2 Purwokerto — Purwokerto, Jawa Tengah
Natural Science — July, 2019-May, 2022

PROJECT WORKS

Credit Risk Classification — May, 2024

- Developed a machine learning model using Artificial Neural Network to classify loan approval status based on applicant data that led to 95% model accuracy and short training time. The project involved extensive data preprocessing, including handling missing values, encoding categorical variables, and feature scaling
- Technologies Used: Python, Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, Tensorflow, Optuna.

Emotion Detection — October, 2024

- Developed an emotion detection model using a Bidirectional LSTM neural network, achieving 84-85% accuracy in classifying emotions such as sadness, joy, and anger from text.
- Technologies Used: Python, Pandas, Scikit-learn, Tensorflow, Streamlit, Nltk.

Alzheimer Diagnosis — October, 2024

- Developed a machine learning model to classify Alzheimer's disease using XGBoost, K-Nearest Neighbors (KNN), Support Vector Machine, Random Forest, and Gradient Boosting. Conducted data preprocessing, correlation analysis, and model evaluation, achieving accuracy above 90% for decision-tree-based models.
- Technologies Used: Pandas, Numpy, Matplotlib, Seaborn, Altair, Scikit-learn, XGBoost.

VOLUNTEER EXPERIENCES

Speakable Youth as IT Support — April, 2024 – June, 2024

- Led the IT Support Division, managing a team and providing technical assistance.
- Operated and facilitated English classes and entertainment events, ensuring a smooth learning experience.
- Built a Discord AI Chat bot for Speakable Youth to enhance community communication.

CERTIFICATIONS

Google Advanced Data Analytics Professional Certificate — August, 2024 – September, 2024

- Foundation of Data Science.
- Get Started with Python.
- Go Beyond the Numbers: Translate Data into Insights.
- The Power of Statistics.
- Regression Analysis: Simplify Complex Data Relationships.

SKILLS

Languages: Indonesia (Native or billingual proficiency), English (Professional working proficiency)
Database Development: MySQL, PostgreSQL, MongoDB.
Programming: Python, Javascript, Typescript, Python, Java, PHP.
Machine Learning: Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, Tensorflow, XGBoost.
Softwares: Tableau, Excel.