BANI ADAM TAMPUBOLON
Informatics Engineering Fresh Graduate
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SUMMARY

An Informatics Engineering fresh graduate with expertise in Machine Learning, Deep Learning (TensorFlow/Keras), and Data Analytics. Experienced in developing AI models (CNN, LSTM, Generative AI), building interactive web apps and dashboards (Tableau, Power BI, Streamlit), and implementing a data visualization chatbot during an internship at PTPN VII.

WORK/INTERNSHIP EXPERIENCE

PT Perkebunan Nusantara VII | Bandar Lampung, Indonesia
Data Analyst Intern (January 2024 - August 2024)

- Developed an AI-based chatbot that executes database queries based on user prompts to display company data with interactive visualizations, simplifying the data retrieval process for employees in logistics and accounting departments for their reports.
- Built an interactive web dashboard to monitor item log statistics and daily, weekly, monthly, and annual production performance, supporting rapid analysis of plantation performance and high-volume commodity movements.

ORGANIZATIONAL EXPERIENCE

Informatics Engineering Student Association | Bandar Lampung, Indonesia
Staff of Member Development Division (2022 - 2023)

- Analyzed survey and questionnaire data from association members to identify student interest in specific programs and to group students based on their interests and hobbies.
- Generated strategic insights that helped determine the association's work programs to be more efficient and aligned with member needs.
- Successfully improved the accuracy of selecting competition delegates and the effectiveness of data-driven work programs.

EDUCATION

Institut Teknologi Sumatera | Lampung
Bachelor's Degree, Informatics Engineering (2021 - 2025)
- GPA: 3.50/4.00

Bangkit Academy (Bootcamp) by Google, Tokopedia, Gojek, & Traveloka
Machine Learning (February 2024 - August 2024)
Nilai: 3.98/4.00
- Core coursework: IT Automation with Python, Google Data Analytics, Matemathic for ML and Data science, Tensorflow Data and Deployment, Tensorflow: Advances Techniques Specialization

SKILLS

- Programming	Python, SQL
- Data Analyst & ML	Tensorflow, Keras, TFJS, Numpy, Pandas, Scikit learn, Generative AI
- Tools	Tableau, Power BI, Streamlit, Github, VS Code, Google Colab, Ms Excel, AWS Cloud, Git.
- Personal	Effective Communication, Teamwork and Individual Collaboration, Problem Solving, Critical Thinking, Adaptability, Working Under Pressure.

PROJECTS

Depression Detector & Mental Health Screening (2025)
- Developed a Convolutional Neural Network (CNN) model to detect potential depression based on clinical and survey data. Processed and validated a mental health dataset and implemented a web app to facilitate user self-screening. Produced a high-accuracy model that can assist in the initial screening of mental health conditions.

- **Skills: Flask, Deep Learning, Tensorflow.js, Keras**

Cat Meow Translator berbasis CNN & Generative AI (2025)
- Built a cat sound translator system using CNN and Generative AI to classify cat sounds and implemented the system as an interactive web app for ease of use by non-technical users.
- Combined an audio classification model with text generation to produce translations that approximate the original meaning of the cat's sounds.
- **Skills: Generative AI, Flask, CNN, Tensorflow, Web Development**

Flood Prediction Using LSTM (2025)
- Developed a Long Short-Term Memory (LSTM) model to predict potential flooding based on rainfall and regional elevation data and performed multivariate data preprocessing to generate short-term predictions to support disaster mitigation efforts.
- **Skills: Machine Learning, LSTM**

Company Data Monitoring Dashboard (2024)
- Designed an interactive web dashboard using Tableau and Power BI to monitor logistics and production performance for a plantation company. Integrated MySQL data with visualizations of production KPIs (daily, weekly, monthly, annual) to support management decision-making.
- **Skills: Data Analyst, SQL, Dashboard Monitoring Web**

CERTIFICATIONS

- **DeepLearning.AI TensorFlow Developer Specialization** – Coursera, 2024
- **TensorFlow: Advanced Techniques Specialization** – DeepLearning.AI, 2024
- **Machine Learning Specialization** – Stanford University, 2024
- **TensorFlow: Data and Deployment Specialization** – Coursera, 2024
- **Analyze Data to Answer Question** – Google, 2024
- **Share Data Through the Art of Visualization** – Google, 2024