

Syarafina Dewi

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SUMMARY

I have a passion for various aspects of technology such as Machine Learning, Big Data using Python, and Natural Language Processing. As a Python Developer, I focus on advancing generative AI within chatbots, including optimizing prompts, implementing various LLMs, and integrating diverse features to enhance functionality.

EDUCATION

Aug 2019 – Jul 2023 **Satya Wacana Christian University**
Bachelor of Computer Science
GPA: 3.91
Specialization: Data Science

EXPERIENCES

- Nov 2023 – Present **Python Developer at PT. InMotion Inovasi Teknologi**
- Develop customized chatbot solutions tailored to meet specific client requirements
 - Develop generative AI features to enhance chatbot functionality and user experience
 - Implement various large language models (LLMs) to broaden chatbot capabilities (GPT, Claude, Gemini, Llama, Cohere)
 - Optimize prompts to improve chatbot interactions and response quality
 - Developing evaluators to ensure the relevance of retrieved data chunks and the alignment of generated responses with queries and ground truth
- Sep 2022 – Mar 2023 **Intern Data Analyst at PT. Warung Mantep Indonesia**
- Successfully implemented and managed ERPNext, streamlining processes and boosting productivity
 - Drove strategic decision-making by making sales forecasts
 - Developed visually appealing dashboard reports, providing real-time business insights to key stakeholders
- Aug 2022 – Dec 2022 **Studi Independen Kampus Merdeka Data Analytics at PT. Zona Edukasi Nusantara (Zenius)**
- Learned and implemented machine learning algorithms such as K-Means, Linear Regression, Decision Tree, etc. in projects
 - Made a journal with the title Twitter Sentiment Analysis Towards Qatar as Host of the 2022 World Cup Using Textblob
 - Worked in a team to create a loan repayment prediction model using historical data

PROJECTS

- Nov 2023 – Present **Generative AI Development in Chatbot**
- Customized prompts to adjust chatbot responses for various use cases
 - Implement various large language models (LLMs) to broaden chatbot capabilities (GPT, Claude, Gemini, Llama, Cohere)
 - Integrate generative AI features to enhance chatbot functionality and user experience
 - Developing evaluators to ensure the relevance of retrieved data chunks and the alignment of generated responses with queries and ground truth
 - Optimized embedding processes to ensure vector inputs to the models achieve maximum performance
 - Integrated OpenAI's DALL-E API to enable image generation

Aug 2024 – Present	PLN - Listrik Pintar <ul style="list-style-type: none"> - Design and develop APIs to facilitate integration with the PLN's API - Develop a chatbot capable of handling diverse payment processes, including top-ups for agent balances, balance inquiries, and transaction history
Aug 2024 – Present	Estée Lauder - Spa Reservation <ul style="list-style-type: none"> - Backend development for spa reservation dashboard - Develop customized WhatsApp Flows to handle Spa Reservation bookings and rescheduling requests - Offer technical solutions tailored to meet unique client needs and enhance the reservation process
Sep 2024 – Oct 2024	WPP Stream Europe 2024 <ul style="list-style-type: none"> - Developed customer service to be used during the WPP Stream Europe 2024 event - Implemented Gen AI powered by Meta Llama 3.2, seamlessly integrated into WhatsApp - Provided training to the Meta team on effectively using the 3Dolphins platform
Aug 2024 – Oct 2024	GroupM - WhatsApp Broadcast & Send Message Integration <ul style="list-style-type: none"> - Designed and developed APIs to facilitate integration with the Viral Pitch platform - Conducted training sessions on implementing and optimizing WhatsApp broadcast features
Oct 2022 – Apr 2023	Implementation of Principal Component Analysis on K-Means for Clustering Education Levels of Semarang Regency Population <ul style="list-style-type: none"> - Research was conducted to classify the education level of individuals in Semarang Regency based on gender, age, and individual status within the family - I used the Principal Component Analysis (PCA) method to reduce dimensions, alongside the implementation of the K-Means algorithm - My research can identify groups that require special attention in facing the demographic bonus that is predicted to occur in 2035
Dec 2022 – Jan 2023	Twitter Sentiment Analysis Towards Qatar as Host of the 2022 World Cup Using Textblob <ul style="list-style-type: none"> - Utilized SNSCrape for web scraping on Twitter - Conducted a comprehensive analysis of global sentiments on Twitter regarding Qatar as the host of the 2022 World Cup - The analysis resulted in positive and negative sentiments with an 83% accuracy score

ACHIEVEMENTS

October 2022	Runner-up, SOPREMA FISIPOL UGM 2022 Competition (Start-up Category)
August 2021	3rd Place in the 2021 Innovation Technology Competition

CERTIFICATES

Jul 2023	Data Analytics Micro-credential, Coursera
May 2023	AWS Certified Cloud Practitioner, Amazon Web Services (AWS)
Nov 2022	Google Data Analitik, Coursera
Jul 2021	Database Design and Programming with SQL, Oracle
Mar 2021	Python for Data Science, IBM

SKILLS

- **Programming Language:** Python
- **AI & NLP Libraries:** LangChain, Tiktoken, VoyageAI, Qdrant, Langchain OpenAI
- **API Development:** Flask, Flask-RESTX, Redis, Boto3
- **Data Processing & Analysis:** NumPy, pandas, scikit-learn, BeautifulSoup, Unstructured
- **Databases:** MySQL, MinIO
- **Code Editor & IDE:** Visual Studio Code, Google Colaboratory
- **Technical Skills:** Generative AI Development, Chatbot Development, Process Flow, WhatsApp Flows, Cross Platform Integration, Data Analytics
- **Soft Skills:** Teamwork, Willing to Learn, Problem-Solving, Communication, Time Management, Analytical Thinking

PUBLICATIONS

Dewi, Syarafina, and Dede Brahma Arianto. "Twitter sentiment analysis towards qatar as host of the 2022 world cup using textblob." *Journal of Social Research* 2.2 (2023): 443-455.

Dewi, Syarafina, and Magdalena A. Ineke Pakereng. "Implementasi Principal Component Analysis pada K-Means untuk Klasterisasi Tingkat Pendidikan Penduduk Kabupaten Semarang." *JIPPI (Jurnal Ilmiah Penelitian dan Pembelajaran Informatika)* 8.4 (2023): 1186-1195.
