Desti Ratna Komala

Data Scientist

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SUMMARY

A passionate and innovative Data Scientist with a solid foundation in data analysis, machine learning, and artificial intelligence, with expertise in creating data-driven solutions that drive business results. Proven experience in handling large volumes of data, developing predictive models, and creating interactive dashboards and visualizations. Adept at solving complex problems through advanced algorithms and automation tools. Committed to exploring and implementing the latest advancements in AI and generative AI to inform strategic decision-making.

EDUCATION

Hacktiv8 Bootcamp — **Jakarta, Indonesia**
Data Science Program. Score: 89.48% (Transcript) — *06/2023 - 08/2023*

Telkom University — **Bandung Indonesia**
Bachelor of Physics Engineering (GPA 3.10/4.00) (Transcript) — *2014– 2021*

SKILLS

General Skills: Exploratory Data Analysis, Time Series Analysis, Hypothesis Testing, ETL, Machine Learning, Deep Learning
Programming Languages: Python, R
Machine Learning Frameworks: Tensorflow, Scikit-learn, Pytorch, Keras, NLTK, spaCy, Hugging Face, Transformers, OpenCV, Tensorflow Object Detection API, Prophet, Statsmodels, LLM, OpenAI
Big Data Technologies: Apache Spark, Google BigQuery,
Database Management: MySQL, PostgreSQL, MongoDB, Redis
Reporting & Dashboards: Microsoft Power BI, Tableau
Interactive Web Apps: Streamlit, Dash(Plotly)
APIs:Flask

WORK EXPERIENCE

PT Fortech Indotama — **Jakarta, Indonesia**
Data Scientist — *November 2023 – Present*

- Assisted in data collection, cleaning, and preprocessing tasks, ensuring data integrity and reliability for subsequent analysis.
- Spearheaded the development and deployment of three end-to-end data-driven products, encompassing customer churn prediction, personalized recommendation systems, and sentiment analysis. These products contributed to a 95% increase in user engagement within the first quarter post-launch.
- Demonstrated exceptional model accuracy, consistently achieving an average accuracy rate of 92% across five machine learning models, surpassing project requirements by a notable 2%. These models encompassed various domains including natural language processing, image classification, and time-series forecasting.
- Led a cross-functional team to optimize model inference speed, resulting in a 30% reduction in latency. Through the implementation of advanced optimization techniques such as model quantization and algorithmic improvements, the team significantly enhanced the responsiveness of real-time applications, improving user experience and satisfaction metrics.

SCC Investment Corp — **Jakarta, Indonesia**
Data Analyst — *January 2022 – May 2023*

- Collected and cleaned financial and market data from 10+ sources, processing over 100,000 data points daily, ensuring data integrity and quality for analysis.
- Conducted exploratory data analysis (EDA) on historical market data, identifying trends, patterns, and correlations, resulting in a 15% increase in portfolio performance.
- Developed and maintained 15+ interactive dashboards and reports using Tableau, allowing stakeholders to visualize investment performance metrics and key indicators in real-time.

PROJECTS

Airline Passengers' Satisfaction Prediction [Deploy] *July 2023*
Developed a machine learning model to predict airline passengers' satisfaction based on historical passenger data. Achieved 91% accuracy after data cleaning, feature engineering, and deploying with Streamlit for an interactive interface.
Technology / Tools: Python, Pandas, NumPy, Seaborn, Matplotlib, Scikit-Learn, TensorFlow, Keras, Streamlit.

Global Suicide Rate Analysis[Visualisation] *June 2023*
Conducted an analysis of global suicide rates using various visualization techniques to identify trends and correlations. Created interactive dashboards in Tableau to communicate the results effectively to stakeholders
Technology / Tools: Tableau, Python, Pandas, Numpy, Seaborn, Matplotlib, Scikit-Learn, Statsmodels, studiolooker.

Feedback Sentiment Analysis integrated with AI [Deploy] *February 2024*
Developed algorithms using natural language processing and deep learning models for predictive cyberbullying tweets, and achieved 72% accuracy score
Technology / Tools: Python, Pandas, NumPy, Seaborn, Matplotlib, Scikit-Learn, TensorFlow, Keras, Streamlit.

Emotion Computer Vision [Deploy] *November 2023*
Developed a computer vision model to detect emotions in facial expressions, focusing on identifying whether a person appears sad or happy. The project involved training a convolutional neural network (CNN) on a large dataset of facial images, with features like smile detection and eye shape used to determine emotional states.
Technology / Tools: Python, Pandas, NumPy, Seaborn, Matplotlib, SciPy, Scikit-Learn, Feature-Engine, TensorFlow, Keras, Streamlit.

CERTIFICATIONS

TheForage

The BCG Data Science Virtual Experience Program
Issued on August 2023
Certificate: BGG Data Science Certificate

British Airways Data Science Virtual Experience Program
Issued on September 2023
Certificate: BA Data Science Certificate

Accenture North America Data Analytics And Visualization
Issued on September2023
Certificate: DA Data Science Certificate

Udemy

Data Science and Machine Learning Basic to Advanced
Issued on February, 2024
Certificate: Data Science and Machine Learning Basic to Advanced Course

Spotfire-The Complete TIBCO Spotfire Course
Issued on December, 2023
Certificate: Spotfire-The Complete TIBCO Spotfire Course

Computer Vision Fundamentals
Issued on February 2024
Certificate: Computer Vision Fundamentals

HackerRank

Python (Basic)
Issued on August 2023
Certificate: Python (Basic) Certificate

SQL (Advanced)
Issued on April 2024
Certificate: SQL (Advanced) Certificate

Problem Solving (Intermediate)
Issued on April 2024
Certificate: Problem Solving (Intermediate) Certificate