

# ARVEE JANE MONTERA

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Tagum City, Philippines

## STATISTICIAN | DATA ANALYST | MACHINE LEARNING PRACTITIONER

Detail-oriented and analytical Data Analyst with experience in applying AI-driven methodologies to extract actionable insights from complex datasets. Skilled in machine learning, statistical modeling, and working with large language models (LLMs). Proven ability to work independently and collaboratively in fast-paced environments. Adept at deriving insights from campaign, weather, and health data to support data-driven decision-making.

## STRENGTHS AND EXPERTISE

Statistical Modeling & Forecasting	MS Excel	Data Wrangling & Cleaning
Machine Learning	Data Visualization	

## PROFESSIONAL EXPERIENCE

### Freelance Statistician

November 2023 - May 2025

- Conducted in-depth analysis of academic and behavioral datasets using R and Python, applying regression, k-NN, and time series models.
- Validated predictive performance of AI models using MSE, RMSE, MAE, and  $R^2$  across different clusters and datasets.
- Collaborated with academic and business clients to define data requirements and reporting outputs.
- Explored and integrated LLMs into research workflows to summarize results, interpret findings, and generate natural language insights.
- Applied various statistical tests and machine learning algorithms using SPSS, R, and Python on real-world datasets.
- Cleaned and prepared data through techniques such as imputation and preprocessing to ensure data quality.
- Performed data exploration and visualization using graphs in R and Python.
- Reviewed and corrected clients' interpretations of statistical results to ensure accuracy and clarity.

## EDUCATION

University of Southeastern Philippines  
Bachelor of Science in Statistics

August 2021 - June 2025

## CERTIFICATIONS

- Data Analyst with Python via DataCamp (2023)
- Intermediate SQL via Datacamp (2023)

### TECHNICAL PROFICIENCIES

- Languages: Python, R, SQL
- Libraries: scikit-learn, caret, pandas, numpy, tidyverse, matplotlib, seaborn
- Visualization: ggplot2, Plotly, Power BI
- Tools: Jupyter, RStudio, Google Colab, Git, Excel
- AI/ML: LLMs (OpenAI GPT, prompt engineering), k-NN, K-Means, ARIMA, Holt's Linear, Random Forest

### SOFT SKILLS

- Critical Thinker & Curious Explorer
- Proactive Problem Solver
- Communicates Complex Ideas Clearly
- Adaptable and Resilient
- Team-Oriented with Independent Initiative