

JEAN PAUL NDUWAYO NTORE, M.S. in Statistical Science

Phone (208) 874-3929 | Email: jnduwntore@gmail.com

Portfolio: <https://myportfolio-deploy.herokuapp.com/> | GitHub: <https://github.com/ntorenduwayo>

LinkedIn: www.linkedin.com/in/jean-paul-nduwayo-ntore-2753b247

Key Skills

Quantitative

- ✓ Algebra and Mathematics
- ✓ Data Analytics: Descriptive, Diagnostics, Predictive, and Prescriptive Analytics
- ✓ Statistical Data Distribution
- ✓ Parametric and Non-Parametric Statistics: Regression, Multivariate Analysis
- ✓ Hypothesis Testing: T-test, F-test, Chi Square Test, ANOVA, Wilcoxon test, Friedman Test.
- ✓ Probability and Bayesian statistics
- ✓ Machine Learning
- ✓ Data Visualization
- ✓ Sampling & Experimental Design
- ✓ Interview, Focus Groups
- ✓ Survey Analysis & Text Mining

Computing

- ✓ **Statistical software:** R, SAS, Pandas, Python, SPSS, HTML
- ✓ **Visualization:** Tableau, Advanced

Professional Summary

Skilled **Data Analyst** offering 5+ years of progressive experience in the provision of data & statistical analysis/strategic research to solve challenging problems. Seeking continued career growth as a **Data Analyst/Scientist/Statistician**.

Professional Experience

Project Highlights

Pewlett-Hackard-Analysis | <https://github.com/ntorenduwayo/Pewlett-Hackard-Analysis>

Technologies Used: SQL, and QuickDBD.

- Created a Database schema with QuickDBD and applied it as blueprint to describe how the data relate to other tables or data models.
- Built a Database in PostgreSQL/pgAdmin to store, maintain, and access the data.
- Employed ETL process to create data tables in the database.
- Tested and tuned the database performance to make sure of its efficiency.
- Queried the database about eligible employees for retirement in the company.

World weather Analysis | https://github.com/ntorenduwayo/World_Weather_Analysis

Technologies Used: Jupyter Notebook, Python, and Google Map and

OpenWeatherMap's API keys.

- Built a World Weather Database, where I stored world weather data, and cities' locations using OpenWeatherMap API key.
- Created scatter plots to investigate the effect of latitude on the different weather parameters.
- Produced a Travel Itinerary Map.
- Created a Customer Travel Destinations Map.

Prestige Rating Model & Website | <https://github.com/ntorenduwayo/Prestige-Rating>

Technologies Used: R, Shiny R, and Heroku

Model Website: <https://multiple-regression-app.herokuapp.com/>

- Summarized the data with descriptive statistics.
- Developed a Multiple Linear Regression model: Variable screening, checking the model adequacy and model assumptions, and validating the model.
- Built a dynamic dashboard and charts to show the model characteristics and visualize it respectively.
- Launched the model website by combining the power of Shiny R, and Heroku.

Bike-Sharing Visualization | <https://github.com/ntorenduwayo/prestige-app>

Technologies Used: Tableau, and Jupyter Notebook

- Imported dataset with Jupyter Notebook and loaded it to Tableau.
- Created graphs and plots in Tableau to explore and visualize the dataset.
- Created a dashboard using the Tableau Story to convey the findings from the dataset.

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Microsoft Excel,
OBIEE Analytics,
Plotly, D3.js

✓ **Database:** SQL,
SQLite, and
MongoDB

✓ **Survey software:**
SurveyMonkey,
Qualtrics

Education

May 2012

**M.S. Statistical
Science** University of
Idaho, Moscow, ID

August 1995

B.S Forestry
Sokoine University of
Agriculture, Morogoro,
TZ

Certificates

June 2022

Data Analytics
University of Arizona
(UA), Tucson, AZ

November 2016

People's Analytics
University of
Pennsylvania,
Philadelphia, PA

Language

Fluent in English,
French, Swahili,
Kinyarwanda, and
Kirundi

Work Experience

June 2017 - January 2021

Data Analyst | University Analytics & Institutional Research | Tucson, AZ

- Modeled students' data using machine learning, and regression through R and SAS.
- Built and maintained SQL scripts, indexes, and complex queries for faculty and students' data analysis and extraction.
- Created dashboards in OBIEE analytics, and Excel to track KPI's, metrics, and other key data points relevant to university stakeholders and partners.
- **Achievements / Contributions:**
 - ✓ Pioneered the integration of R and SAS into SQL server via hard coding that resulted in 50% reduction of time needed to gather and analyze the data.
 - ✓ Developed an autoregressive integrated moving average (ARIMA) model to forecast student enrollment. The model produced more accurate predictions compared to the previous model.
 - ✓ Evaluated and mapped publicly available high school data sources from state and federal government databases.

September 2012 – June 2017

Associate Data Analyst | Schweitzer Engineering Lab Inc. | Pullman, WA

- Provided statistical consulting expertise to the *Human Resources* department.
- Collected, managed, and analyzed data via R and Excel, and recommended key performance indicators to the company executives.
- Organized and managed focus groups to gather employees' opinions on organization policies, which I used to generate employee surveys in Qualtrics and Survey Monkey.
- **Achievements / Contributions:**
 - ✓ Initiated the use of Stata to analyze the survey data, this resulted in a reduction of time needed to analyze the survey and allowed a timely result report.
 - ✓ Developed comprehensive performance indicators; metrics-for-hire; and employee evaluation metrics that led to a 10% reduction in employee turnover.