

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

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

LinkedIn: [www.linkedin.com/in/jean-paul-nduwayo-ntore-2753b247](https://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. 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](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.