# Tomiwa Shodipe
*Data Scientist*

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Data scientist specializing in advanced statistical analysis, machine learning, and predictive modeling, leveraging AI-driven solutions and cloud computing for data-driven decision-making.

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### SKILLS

- **Machine Learning**: Econometrics, Statistical Analysis and Modelling, Time Series Analysis, LASSO Regression, Neural Networks (NN), Convolutional Neural Networks (CNN), Monte Carlo Simulation, Risk Modelling, Forecasting
- **Cloud Computing:** Azure (Virtual Machine, Blob Storage, Databricks, Monitor, Blob Storage), AWS (EC2, S3, Lambda, RDS, CloudFormation), Terraform. Databricks
- **Database Management**: SQL, PostgreSQL, MySQL, DynamoDB, Azure Data Factory, ETL Pipelines, Data Warehousing, SSIS, Snowflake, Data Wrangling, Apache Spark, SQL Development, SQL Querying
- **Business Intelligence & Automation:** Power BI, Power Automate, Power Apps, Azure DevOps, GitHub Actions, Azure Data Factory
- **DevOps & CI/CD:** Docker, Kubernetes, Terraform, Jenkins, CloudFormation, GitHub, Bitbucket
- **AI & Generative AI Framework:** LLM, GitHub Microsoft Copilot, Azure AI Foundry, R Studio
- **Programming & Scripting**: Python, SQL, Bash/Shell Scripting, R, NET
- **Data Pipeline and Workflow Orchestration**: Azure Data Factory, Apache Airflow, Spark

## PROFESSIONAL EXPERIENCE

**Data Scientist**                                                                                      Jan. 2024 – Present
Weyerhaeuser  - AI Team

- Built and Deployed machine learning models to forecast market prices and demand for Decking, Glulam, Parallam, Cedar, and OSB products for the Wood Product and Engineered Wood teams.
  *Model Used: Neural Network, PCR, VAR, Regularized Regression Model (LASSO, Ridge, Elastic Net), XgBoost, Random Forest, Linear Regression, Non-Linear Regression*
- Managed model life cycle, including data workflow, model development, and continuous integration.
- Led the AI team in discussing findings with finance and sales teams for wood products.
- Developed AI solutions to extract order flow details from invoices and receipts.
- Integrated AI solution with Power Automate workflows and automated transfer to the Snowflake data cube

- **Key Activities:**
- Built a scalable data pipeline to load all product data in Parquet from Snowflake to Azure SQL.
- Developed a relational database and automated incremental data pipeline for line-level data.
- Created SQL queries, stored procedures, and ETL pipelines to automate changes in the model data.
- Build forecasting models that adapt to seasonality, trends, and shocks in the supply chain
- Developed a .NET API to perform data wrangling from third-party servers.
- Detected outliers and transformed data to improve model quality.
- Performed feature engineering to remove noise and enhance model performance.
- Built machine learning model to forecast demand for wood products
- Conducted accuracy testing between various models and Azure ML model results for all products.
- Performed cross-validation and hyperparameter tuning using grid search and random search.

- Managed the continuous deployment of pricing models to production using docker, Kubernetes.
- Automated the transfer of the model result to the clients with Azure Data Factory and Power Automate.
- Provisioned cloud infrastructure using Bash/Shell scripting and terraform.

**Key Achievements**
- Led the AI team to develop top-performing wood product models, increasing margins by $525K/Yr
- Led the AI team to create the first organization-wide pricing model incorporating economic index and third-party data to compete with industry wood prices.

**Quantitative Analyst/BI Developer**                                        Jan. 2023 – Jan. 2024
Weyerhaeuser – IT Team
- Developed machine learning and econometrics models to aid in finance's sales and margin forecast
- Developed statistical models for pricing and margin optimization for all wood products.
- Support the development of sales incentive tool used in forecasting and tracking sales team performance
- Built Power BI dashboards to provide real-time financial insights to engineered wood product team.
- Developed predictive and machine learning model to forecast glulam products for sales reps.
- Built and optimized SQL queries and store procedures to improve sales model for three business lines.
- Built data pipelines in Microsoft Azure Data Factory for in sales incentive tool and reporting.
- Automated line level data workflows between the server and the sales app using Power Automate.
- Built SQL procedures and custom ETL processes to optimize data retrieval and transformation.
- Load line level data from Snowflake into Azure SQL server and manage price rebate with load builder

**Key Achievements**
- Built forecasting app end-to-end, saving sales team hundreds of thousands annually.
- Implemented predictive models for the wood product pricing team.
- Built pipeline to automate reporting for the finance team, replacing manually managed excel workflows.
- Developed a sales incentive tracking system to improve sales targeting accuracy and decision-making.

**Data Analyst Intern**                                        June 2022 – Aug. 2022
Weyerhaeuser
- Developed Power BI dashboards for cross-functional teams.
- Developed predictive machine learning models for sales of multiple products (lumber and parallam).
- Created dataflows used to develop Power BI dashboard by WP business line.
- Performed data querying, manipulation, and transformation using SQL scripts and stored procedures.
- Built SQL procedures and custom ETL processes to optimize data retrieval and transformation.
- Developed and executed Power Automate flows to streamline data workflows and automate reporting.
- Collaborated with stakeholders to gather requirements, design and develop reporting solutions.

**Economic Research**                                        Jan. 2020 – May 2022
Kansas State University (KSU)
- Collected, clean, and organize large datasets using Excel, Power Query, and SQL.
- Performed exploratory data analysis to identify patterns, trends, and insights.
- Developed econometrics models and conducted research on causal inference through data bootstrapping.
- Applied Frequentist, Bayesian, and Machine Learning techniques for forecasting and analysis.
- Published research in academic journals and present findings at conferences.

**Data Analyst Intern**                                        Oct. 2018 – July 2019
ZF Group
- Developed and maintained Power BI dashboards for Braking units.
- Developed and executed SQL queries to retrieve and analyze inventory data.

- Managed data integration and transformation processes to ensure accurate and timely reporting.
- Collaborated with airbag and camera department to understand reporting solutions for the vendors
- Created and maintained documentation for data processes and reporting procedures.
- Provided technical support to users, troubleshooting Power BI and SQL-related issues.

**Education and Training**

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| PhD Kansas State University (Econometrics) | 2025 |
| MSc. Eastern Illinois University (Economics) | 2019 |
| BSc. University of Lagos (Economics) | 2015 |