

# Damilola Dada

Houston, TX

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## Work Experience

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### **Graduate Research Assistant**

Florida Agricultural & Mechanical University

September 2020 to Present

- Automate Data collection through creation of statistical models and new experimental framework.
- Computational modeling and Artificial Intelligence/Machine Learning for materials design.
- Correlate similar data to find actionable results from density functional theory (DFT) calculation results.
- Design computational models to illustrate complex chemical reactivity and density of state plots using Python and P4VASP.
- Model, develop, and analyze nanocrystal structures using data-driven VESTA software.

### **Graduate Research Assistant**

University of Louisiana at Lafayette

January 2019 to August 2020

- Utilized Python to perform data processing and analysis of acoustic frequency-amplitude data to predict elastic properties using statistical models.
- Implemented the Levenberg-Marquardt algorithm to solve minimization problems in least squares curve fitting.
- Used machine learning algorithms to select features, create, and optimize classifiers in the acoustic data.
- Simulated variety of 3D printed metallic alloys, layer by layer based on Computer Aided Design by carrying out preprocessing of structured and unstructured data.

### **Graduate Teaching Assistant**

University of Louisiana at Lafayette

August 2018 to December 2018

- Guided 25 students in advanced laboratory research and technology experimentation
- Taught electrical and electronics undergraduate level courses
- Independently developed teaching materials, such as syllabi, visual aids, supplementary notes, and course websites.

### **Entry-Level Data Analyst**

Alegria Recyclers Ltd

November 2015 to July 2018

- Constructed operational reporting in Tableau to improve scheduling contractors, saving \$2,090,000 in the annual budget.
- Used SQL to Implement a long-term pricing experiment that improved customer lifetime value by 23%
- Identified process improvements through client-data analysis, which led to an increase in profit by 8%.

- Analyzed anonymous employee performance reviews to identify regular areas for improvement for the company engineers leading to actionable feedback for over 100 engineers.
- Built out the data and reporting infrastructure from scratch using Tableau and SAS to provide real-time insights into the product, marketing funnels and business KPIs.

#### COURSE PROJECTS

- Data Analysis and Visualization course
- Applied Analytical reasoning facilitated by interactive visual interfaces in Tableau and R, for exploratory and predictive analysis and visualization of AUTO dataset downloaded from an open-source database. Used Clustering techniques in R and Python to predict dependent variables in the dataset.
- Created a locally hosted Shiny app to create a scatterplot of a selected dataset, where the user can choose which features to display on each axis via dropdown menus.

## Education

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### **Doctor of Philosophy (PhD) in Modeling**

Florida Agricultural & Mechanical University - Tallahassee, FL  
May 2023

### **Master of Science in Physics**

University of Louisiana - Lafayette, LA  
August 2020

### **Bachelor of Science & Technology in Used Statistical and Machine Learning algorithms to propose**

Federal University of Technology  
October 2015

## Skills

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- Python
- MATLAB
- R
- SQL
- SAS.  
Data Preprocessing: pandas
- numpy
- dplyr
- Apache Spark
- Hadoop
- Natural  
Language Processing.  
Stats/ML Ecosystems: statsmodels
- scikit-learn |  
Data Visualization: Tableau

- Matplotlib
- Plotly
- Seaborn
- VESTA
- ggplot2.
- Machine Learning: Regression
- Classification
- Clustering
- Neural Networks.
- Google Analytics
- Digital marketing
- Social media management
- UNIX
- Linux

## Links

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<https://www.linkedin.com/in/damilola-dada-98627b16a>