Afolabi Adewale Adeniyi

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<https://github.com/AdewaleData>

# **EDUCATIONAL AND PROFESSIONAL BACKGROUND**

**LAGOS STATE UNIVERSITY OJO. Lagos, Nigeria.**

Bachelor of Mechanical Engineering,

First class Honours 4.53/5.00.

*Feb 2018 - Feb 2024*

Relevant Computation Coursework: Introduction to Computer Science, Use of English, Introduction to Information Technology, Introductory Statistics, Introduction to Programming and Computations (Python Programming), Technical Communications, Project Management, Operational Reasearch.

Relevant Engineering Coursework: Mechanics of Machines, Applied Mechanics, Vibrational Analysis, Maintenance Engineering, Introductory Statistics, Science of Materials, Strength of Materials, Electrical Machines, Applied Fluid Mechanics, Metallurgy, and Technical Report Writing.

# **HONORS, FELLOWSHIPS AND GRANTS**

**Chevron Agbami Undergraduate Scholarship**.  **[2021](https://drive.google.com/file/d/19kYiC8zvqtL8LUzG3zK4dEk_nEajePeK/view?usp=sharing)**

**Senator Tokunbo Abiru Foundation Busary Scheme**.  **2021**

**Ikorodu Division Peace Initiative Scholarship**. **2022**

**Vice Chancellor's Scholarship for Academic Excellence 2023**  
 Awarded 50% of tuition fees for maintaining First Class honors status.

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# **CERTIFICATIONS.**

**Europe Open University**  ***Feb 2022***

Project Management ([Cert](https://drive.google.com/file/d/1Depi5n53E5mNMovhXTLWrq4pZOw9lGVf/view?usp=sharing))

Python for data science Professional Certification ([cert](https://drive.google.com/file/d/1J-VeHwLD6jXiOiwfqMEM8mEB_oajjwoe/view?usp=sharing))

Machine Learning in Python([cert](https://drive.google.com/file/d/1P9AZ-JB68bfcnnIMAy3RCFRN3y9OXiim/view?usp=sharing))

Diploma in Software Engineering([cert](https://drive.google.com/file/d/1Wi0LEmOIzYTW1IeKgWTgm7VIEWbVOyXX/view?usp=sharing))

Automobile Transmission ([Cert](https://drive.google.com/file/d/1dFoP2bfEcE1RXLQCcNV9NggLyqArjzhk/view?usp=sharing))

**Jobberman Soft Skill Acquisition**

Effective Communication ([Cert](https://drive.google.com/file/d/1vXVCSPx9849hXy78NiqzFrdnFmQ2Bmwe/view?usp=sharing))  ***Feb 2022***

**Coursera**

**University of Yale.**

Understanding Financial Markets ([Cert](https://drive.google.com/file/d/1XvGSe2Hk2ueCNanuKiDt1hUADmEY7o1j/view?usp=sharing)).  ***Oct 2022.***

**Duke University.**

Java Programming ([Cert](https://www.coursera.org/account/accomplishments/verify/G3YX5GHSGP42)). ***Sep 2022.***

Solving Problems with Software (Java) ([Cert](https://www.coursera.org/account/accomplishments/verify/NZ6D2YPQP5KF))

**University of Califonia.**

C for Structured Programming,with Honors([Cert](https://www.coursera.org/account/accomplishments/verify/RLYBB8EADWSP)). ***Aug 2022.***

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# ACADEMIC AND ENGINEERING PROFESSIONAL EXPERIENCE.

**Egbin Power Plc.** **Jan 2023 – April 2023**

Lagos, Nigeria.

*The largest power generating station in Nigeria, with an installed capacity of 1,320 MW, comprising six units of 220 MW each.*

Mechanical Engineering Trainee.

**SIWES**

* Assisted in the operation and maintenance of power plant equipment, including turbines, generators, and cooling systems.
* Conducted routine inspections and troubleshooting to ensure optimal performance and safety standards.
* Participated in the analysis and reporting of equipment performance, contributing to ongoing efficiency improvements. Collaborated with engineers and technicians to support various projects and enhance plant operations.
* Assisted in diagnosing and resolving mechanical and Electrical issues, providing detailed reports and recommendations.

**(LACVIS) Lagos Computerized Vehicle Inspection Center.**  **Nov 2022 – Jan 2023**

Lagos, Nigeria.

*The Only vehicle inspection service company officially recognized by the Lagos State authorities*

Mechanical Engineering Industrial Trainee.

**SIWES**

* Performed comprehensive inspections on vehicles to assess safety and compliance with regulatory standards.
* Assisted in diagnosing and resolving mechanical issues with Key equipments.
* Gained hands-on experience with diagnostic tools and equipments, improving technical proficiency.
* Engaged with clients to explain inspection findings and offer maintenance advice.

# SOFTWARE PROFESSIONAL EXPERICENCE

**Prodigy Pro Systems**  **Feb 2022–Dec 2023**

Lagos, Nigeria.

Software Engineering Trainee.

* Learn’t to develop software development projects under the mentorship of senior developers, gaining hands-on experience in various aspects of software development lifecycle.
* Assisted in the design, development, and testing of websites and mobile applications for clients across diverse industries.
* Educated on website maintenance activities, troubleshooting issues, and implementing updates as required.
* Acquired practical knowledge of website hosting services, including setup, configuration, and maintenance.

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* Demonstrated adaptability and willingness to learn by quickly grasping new technologies and methodologies introduced within the organization.

# SOFTWARE DEVELOPMENT **PROJECTS. (BACKEND SERVICES)**

**Authenthication System API(NestJS)- TypeScript**

* Description: Developed a robust eCommerce API using NestJS. The API handles user authentication.
* Technologies Utilized: NestJS, TypeScript, Node.js, PostgreSQL, Prisma ORM, Prisma, PassportJwt.
* Features: User authentication, Basic Getter operations for client management.
* Codebase: [Github Link](https://github.com/HademiData/Authentication-Api-NestJS)
* Challenges: Familiarizing with Basic Web Request and Response Cycle, Prisma ORM and PostgreSQL schema and Authorization techniques using JWT tokens.
* Learnings: Fundamentals of NestJS, Controllers, modules, sevices, Dependency Injection, Providers, Pipes and Guards TypeScript, REST API creation and management, Authentication and Authorization.

1. **Commerce API(NestJS)- TypeScript**

* Description: Developed a robust eCommerce API using NestJS, TypeScript, and Prisma ORM. The API handles user authentication, product management, order processing.
* Technologies Utilized: NestJS, TypeScript, Node.js, Express, PostgreSQL, Prisma, PassportJwt.
* Features: User authentication, CRUD operations for product management, order processing, payment gateway integration.
* Codebase: [Github Link](https://github.com/HademiData/nestJS-EcommerceApp)
* Challenges: Familiarizing with Basic CRUD operations and Standard Authentication and Authorization techniques.
* Learnings: Strengthened proficiency in NestJS, TypeScript, and database query optimization, Sessions Management.

**School Management System (Django)- Python**

* Description: Developed a comprehensive School Management System using Django, Python, and PostgreSQL. The system facilitates efficient management of student records, attendance tracking, grade management, and communication with parents.
* Technologies Utilized: Django, Python, MySQL, and HTML, CSS, JavaScript (Frontend)
* Features: Student enrollment and profile management, Attendance tracking system, Grade and report card generation, Administration Portal, Student and Administration authentication and authorization.

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* Codebase: [Github Link](https://github.com/HademiData/School-Management-System)
* Challenges: Implementing tasks for background processing of Student and Staff credentials, enhancing systems.
* Learnings: Gained expertise in Django framework, MySQL database management, and asynchronous programming for improved system performance and an overview of the architecture of a schools Backend Structure.

# RESEARCH DATA SCIENCE EXPERIENCE

**University of Gloucestershire**

**Student Research Software Handler.**

Junior Data Analyst (Frelancer)

(Python) -Remote contract

**Lagos, Nigeria**

***Dec2022 – March2023***

* Utilized Python and data science libraries (e.g., pandas, NumPy, scikit-learn, Tensorflow, keras) to manipulate data and perform statistical analysis.
* Collaborated with Master students, to assist in conducting reasearch analysis and Assisted in the development, Fitting, evaluation and optimization of machine learning models for tasks such as classification, regression, and clustering.
* Contributed to the preparation of data visualizations and reports to communicate findings to stakeholders and Conducted research to stay updated with the latest data science techniques and technologies.
* Responsible for maintaining code quality by writing test-driven, elegant and clean codes following the Basic Programming design principle to improve code performance.
* Demonstrated strong problem-solving skills and a willingness to learn and adapt to new challenges in the field of data science.

**University of Gloucestershire**

**Student Research Support**

(R-programming)- Contract(Remote) **London, Uk**

***March 2023 -Jun 2023***

* Worked with a team of students in Computational Experimentation to Perform exploratory data analysis (EDA) to uncover trends, patterns, and insight and Conducted descriptive statistical analysis, including data summarization, data profiling, and data visualization, to extract meaningful insights from Financial datasets.
* Maintained effective and professional communication skills with Students to understand their data needs, address inquiries, and ensure satisfaction throughout data analysis projects
* Displayed strong visualization skills by effectively translating complex data findings into clear and compelling visualizations using libraries such as Python's matplotlib, seaborn, and plotly, as well as R's ggplot2 and plotly, enabling quick data Insights

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**University of Gloucestershire**

**Student Research Support**

## Machine Learning Engineer London, UK

(Python)- Contract (Remote) ***January 2023 - July 2023.***

* Assisted in data preprocessing tasks, including data cleaning, feature engineering, and data augmentation, to prepare datasets for machine learning.
* Responsible for Utilizing Python and machine learning libraries (e.g., scikit-learn, TensorFlow, PyTorch) to implement and experiment with various machine learning algorithms and models.
* Wrote elegant, self-documented code that is easy to read, adapt, test and maintain by other Stake holders, while following best practices and Maintained documentation of machine learning experiments, model architecture, and implementation details for future reference.
* Developed a foundational understanding of neural networks, deep learning, and natural language processing (NLP) techniques, Participating in training and professional development opportunities to enhance machine learning skills and knowledge.

# DATA SCIENCE **PROJECTS**

* Visualising the household energy consumption in the UK ([project](https://drive.google.com/file/d/1VxFk6ZD9a6Ly_kF-EYfiU1Lmegby_OxL/view?usp=drive_link)).
* Analysis and prediction of Income prices using machine learning and AI ([project](https://drive.google.com/file/d/11asPIRZBJODx6LATVab75KjGfv3V_dQc/view?usp=drive_link)).
* Analysis of Uk Crime Offences and testing well known Criminal offences Statisticaly([project](https://drive.google.com/file/d/17B1M9Cdr1Z6mMq8XyYxsV90RKsPzf4zF/view?usp=drive_link)).
* A Machine learning Approach to Predicting currency Rates ([project](https://drive.google.com/file/d/1_8IfXkqzORTMxOWQM3qdmWbE8DR0macd/view?usp=sharing)).
* Predictive Analytics for Informed Business Strategies for different Industrial Sectors([project](https://drive.google.com/file/d/1zNEfAGvllH8Y99hxZPC-bI7Me6Gg7Ipr/view?usp=sharing)).

# ENGINEERING RELATED SKILLS

* **Data Science Libraries**: Numpy, sci-py, scikit learn, Pandas, Matplotlib, Seaborn, Keras, Tensorflow, PandasDataReader, Yfinance, ggplot2, tidyverse.
* **Tools**: Anaconda, Docker, Jupiter notebook, React, Django(Python), Laravel (PHP), NestJS(TypScript), NodeJS,SpringBoot, Postman, VSCode, Git, Github.
* **Concepts**: Mechanics of Machines, Finite Element Analysis, Applied Mechanics, Vibrational Analysis, Maintenance Engineering, Statistical Analysis, Material Science, Strength of Materials, Basics of Electrical Machines, Applied Fluid Mechanics, Metallurgy, and Technical Report Writing.

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# TECHNICAL SKILLS

* **Familiar Programming Languages**: HTML/CSS, Python, C++, Java, R programming, JavaScript, C#, C, PHP.
* **Data Science Libraries**: Numpy, sci-py, scikit learn, Pandas, Matplotlib, Seaborn, Keras, Tensorflow, PandasDataReader, Yfinance, ggplot2, tidyverse.
* **Frameworks**: Anaconda, Docker, Jupiter notebook, React, Django(Python), Laravel (PHP), NestJS(TypScript), NodeJS,SpringBoot, Postman, VSCode, Git, Github.
* **Database**: SQLite, MySQL, PostgreSQL, MongoDB.
* **Concepts**: Design Patterns, Object Oriented Programming(OOP), Memory Management, Time and Space complexities, Reinforcement learning, Natural language processing, Data Structure and Algorithm, Statistical Hypothesis Testing(parametric and non Parametric), regression analysis. Scrum Methodology, agile Management Technique, SOLID principles, Design Patterns, Clean Code and Clean Architecture, Containerization,

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Virtualization, Test Driven Development, Dynamic Programming, Computational Thinking, MicroService and

Monolithic Software Architectures.

* **Collaboration & Communication** : Notion, Twitter, Slack, Discord, Zoom, Google meet.
* **Machine learning**: Regression models, decision tree, clustering model, Random Forest, Dimensional Reduction, Neural Network Architecture Design and Implementations.
* **Languages**: English Language, Yoruba and Basic Sign language.
* **Finance**:
* **Others**: Computer Networking, Cyber Security Basics, Web Scrapping, Data Cleaning and Pre-processing, Blockchain Technology, Basic knowledge in Cloud computing.

# **PROFESSIONAL AND VOLUNTEERING MEMBERSHIPS.**

Society of Petroleum Engineers LASU Student Chapter (**SPE**) 2022-2024 Nigerian Institute of Mechanical Engineers LASU Student Chapter(**NiMech**) 2022-2024 **Cowrywise** Student Ambassador 2022

**MAI** Philantrophic Youth Empowerment Foundation 2021-2024

African **AI** Foundation 2024

**AI** in Nigeria Community 2024

# REFERENCES.

# Prof. Surajudeen Abiodun Fatai, 08023273297

Lagos State University, Dean of Student Affairs 2023.