

EZEKWEM DESMOND

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Detail-oriented professional with a versatile background in education, engineering and research, leveraging expertise in data analysis, artificial intelligence (AI) and machine learning (ML) to drive innovation and efficiency. Skilled in utilizing advanced technologies and analytical tools to solve complex problems, enhance productivity and deliver impactful solutions.

WORK EXPERIENCE

Cover Supervisor ABC Teachers, Wolverhampton, United Kingdom March 2024 - Present	• Supervise classes in the absence of the regular teacher, ensuring that lesson plans are followed and students remain on task • Implement effective behavior management strategies to maintain a productive learning environment • Support students with their learning, providing assistance when necessary and facilitating group activities. • Liaise with teaching staff to ensure continuity of learning and to address any issues that arose during lessons. • Monitor student progress and provide feedback to teachers to aid in assessment and evaluation
Maintenance Engineer Mart Solutionz Automotive Services, Lagos, Nigeria Jul 2020 - Aug 2023	• Applied data analysis techniques to identify patterns in sensor and diagnostic data, accelerating the identification of root causes for vehicle issues • Analyzed real-time vehicle telemetry data to monitor performance metrics such as fuel efficiency, emission levels and engine temperature using tools like Snap-on, Autel and Launch scanners • Used AI-powered diagnostic tools to improve diagnostic accuracy • Trained team members on the use of AI and data analytics tools to ensure efficient utilization in maintenance operations

Mechanical Engineer
Henry Karll Company Limited,
Lagos, Nigeria
Jun 2018 - Jun 2020

- Designed various machine parts such as pulley, gear, bushing that meet needs and requirements using CAD software (SolidWorks).
- Monitored how designed parts are built at the shop floor.
- Carried out preventive and corrective maintenance of the production machines such as lathes, mills, drilling machines etc.

Graduate Research Intern
National Center for Energy
Research andDevelopment,
Enugu, Nigeria
Feb 2017 - Apr 2018

- Cleaned, processed, and stored large weather datasets using tools such as Python, MS Excel, and MySQL.
- Utilized data analysis techniques to identify trends in temperature, humidity and wind patterns, aiding energy efficiency modeling.
- Created visualizations and reports to communicate findings.
- Conducted performance tests on cookstoves and biomass fuels using the Laboratory EmissionControl System (LEMS).
- Collected and analyzed emissions data (e.g.,CO2, CO, particulate matter) to evaluate efficiency and compliance with regulatory standards.

EDUCATION

Masters of Science in Artificial Intelligence
University of Wolverhampton, Wolverhampton, UK
September 2023 - January 2025
Thesis Topic: 'Development of AI-powered Chatbot for Chronic Kidney Disease Prediction and Management'.

Bachelors of Engineering in Mechanical Engineering
Federal University of Technology Owerri, Imo State, Nigeria
October 2009 - October 2014

COMPUTER SKILLS

- Python
 - R
 - Javascript
 - CSS
 - HTML
- MS Office Suite
 - Microsoft Power BI
 - MYSQL

WEB AND SOCIAL

Website
ezekwemdesmond.com

Github
<https://github.com/ezekwemdesmond>

LinkedIn
<https://linkedin.com/in/desmond-ezekwem-473b22114>

REFERENCES
Available on request