

# Tolu Ojo

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## Education

**University Of Nottingham | MEng in Mechanical Engineering | (2019-Outgoing) | 1.1**

**Courses:** Mechatronics, Engineering Management, Machine Learning, Integrated Systems Analysis, Computer Aided Engineering, Human Computer Systems, Designing Intelligent Agents

**Clubs and Societies:** Women in Engineering Society, Public Speaking, Hack Soc, Tennis

**Achievements :** Vice president of Women in Engineering Society, Engineering Peer Mentor

**University of Leeds | Higher Certificate in Chemical Engineering | (2018-2019) | 1.1, 1<sup>st</sup> year**

**5 A-levels:** Including EPQ, Math, Physics, Chemistry, Further Math at : **A\*, A, A, A, B (2016-2018)**

## Academic Projects

**2023 - present (Year 4) : Master's ML Project – Analysis of Transfer Learning to pre-trained Deep learning model architectures for classification applications.**

- Developed and Implemented predictive deep learning models to optimise the prediction accuracy of the tool wear of a component in Python using **Pytorch** and **Keras** machine learning framework. Experience in Data processing, Feature engineering and model development.

## Independent Projects

**2023 – present : iOS-App Development**

- Conceptualised and designed an innovative iOS app catering to users with food allergies specific dietary needs enabling seamless travel experience while mitigating potential health risks.
- Performed in depth market analysis identifying the expanding global food allergy market valued at USD 40.13 billion in 2022 and executed competitive analysis to refine unique app features.
- Created user friendly Figma wireframes to organise the functionality and UI of the app.
- Conducted surveys with target audience within personal network to assess interest and gain valuable feedback.
- Iterated the initial design concept, developing 2 out of 5 features of the minimum viable product.

## Experience

**GlaxoSmithKline (GSK Ware)**

**June 2022- July 2023 : RSC Platform Engineer Industrial Placement**

- Managed a process engineering project to improve and consolidate end-to-end spares process, restructured the communication flow among three departments and cut down waste by 20%.
- Optimised and presented performance data insights on platform leading to the team achieving KPI targets six months into the year, and a 50 % improvement in compliance.
- Spearheaded a 3-week optimisation trial for venturi nozzle in production and justified project proposal to a 6-member cross functional team and coordinated the data acquisition and analysis from the trial.
- Launched and led departmental monthly Safety Improvement cross functional meetings giving technical presentations and grew attendance by 40 %.
- Proposed new UI design to improve the interactivity and accessibility of the Power BI performance dashboard for users in engineering and production.

## Entrepreneurial Experience

**2023 - Art business : iOS App Development**

- Developed a digital gallery app showcasing my artwork, leveraging gained social media traction to expand my artistic and software skills.

- Engineered user-friendly features, allowing direct artwork selection and purchase, with a future plan to feature additional artists on the platform.

## **Leadership Experience**

### **Vice president of Women in Engineering Society**

**University of Nottingham**

**(2021-2022)**

- Teamed with six members to organise career , CV, networking conferences and talks , liaised with sponsors such as Bp , Arup and curated agendas.
- Boosted member attendance by 25 % by developing an improved promotion strategy for each event and organising monthly workshops and establishing new partnerships with industry.
- Advised and motivated Engineering students in a talk, resulting in a 20% increase in applications for industrial placement opportunities .

### **Activity Manager, Management team**

**Camp Beaumont**

**July 2019 – August 2021**

- Managed and supervised a 5-member team of leaders ensuring adherence to standard, through consistent observations and feedback, leading to a 30% surge in customer uptake of the activity.
- Revamped and restructured the activity timetable to improve the suitability of activities for a site of over 100 children in a team with the rest of management team.
- Collaborated with a management team to organise site 7 – week budget and resources dealt with customer queries and issues.

## **Certifications & Courses**

Technology for Product Managers |LinkedIn

**May 2023**

Introduction to Machine Learning Crash course | Google

**April 2023**

Code First Girls Python and Apps Kickstarter course | Code First Girls

**February 2023**

Introduction to Back End Developing | Coursera

**September 2022**