

# MUBARAK GANIYU

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## EDUCATION

Vanderbilt University | Nashville, Tennessee

May 2023

- **Master of Science** | **Major:** Data Science
- **GPA:** 3.93/4.00
- **Relevant Coursework:** Probability and Statistical Inference, Modeling and Machine Learning, Principles of Programming and Simulation, Data Management Systems, Leading Data Science Teams, Data Science Algorithms

Vanderbilt University | Nashville, Tennessee

May 2021

- **Bachelor of Engineering** | **Major:** Mechanical Engineering, **Minor:** Quantitative Methods
- **GPA:** 3.46/4.00 (in-major GPA: 3.58/4.00), **Dean's List:** Fall 2020, Spring 2021
- **Relevant Coursework:** Design Thinking and Creativity, Engineering Design Projects, Multivariate Statistics, Probability and Statistics for Engineering, Technical Communications, Finance & Accounting for Engineers

## TECHNICAL SKILLS

- **Languages:** Python, R, Git, SQL, HTML, MATLAB, Java, SAS, SPSS
- **Packages:** pandas, NumPy, scikit-learn, Matplotlib, seaborn, PyTorch, Tidyverse, ggplot2, Streamlit, Qiskit, BeautifulSoup, fastai, transformers
- **Tools/Technologies:** Jupyter Notebook, JupyterLab, Visual Studio Code, R-Studio, GitHub, Git Bash, Tableau, Microsoft Office, MySQL Workbench
- **Industrial Knowledge:** Data Science, Machine Learning, Business Intelligence, Quantum Computing, Program Management, Design Thinking

## PROFESSIONAL EXPERIENCE

Clearloop Corporation

May - Aug 2022

*Data Analyst Intern*

- Brainstormed ideas on how to effectively identify the U.S. counties in need of better access to energy, so solar infrastructure can be built within those counties
- Used Python to wrangle and transform climate-related data on over 3,000 counties containing metrics such as watt-per-metric tonne and marginal emissions into a readable format for Tableau
- Developed a mapping dashboard that utilizes Tableau for locating the most carbon intense counties in the U.S.

Vanderbilt University Data Science Institute

June - Aug 2020

*Undergraduate Summer Research Intern*

[Link to Website](#)

- Transformed and explored multiple data sets via R to create a mega data set of more than 40,000 rows on premier league players' attributes from 2016 to 2019
- Built a model with 99% accuracy via Jupyter Notebook to estimate footballers' performance using attributes such as goals, assists, clean sheets, position and minutes played
- Leveraged Heroku through Streamlit to develop a web application to estimate footballers' expected fantasy premier league points

The Wond'ry: Vanderbilt's Innovation Center

May 2018 - present

*Student Ambassador | The Wond'ry Quantum Studio Lead*

- Designed the Wond'ry Quantum Studio, a quantum computing program at The Wond'ry, to increase awareness of quantum computing in the Nashville area and develop more talent in the quantum industry
- Bridged a partnership with IBM that saw the procurement of a \$40,000 donation from IBM which was allocated towards the establishment and logistical operations of the Wond'ry/IBM Watson Hub
- Led weekly robotic workshops in which over 150 participants have learnt how to use laser-cut cardboard, raspberry pi and other electrical components to build, code and deploy interactive robots called TJbot
- Consulted with innovators in the makerspace to transform their ideas into real life prototypes with the aid of 3D printers, band saws and other mechanical tools

## TECHNICAL PROJECTS

FIFA Explora

[Link to Dashboard](#)

Used SQL to prepare a data model for loading over 100 megabytes of the FIFA video game series into MySQL Workbench as a data schema. Created numerous functionalities centered around modifying this data schema and extracting crucial insights from it. The project was wrapped up by building a dashboard on Tableau Public that provides a report on the annual trends of the FIFA video game series. The dashboard provides information on attributes such as player ratings, team ratings, team valuations and country representation.

## LEADERSHIP EXPERIENCE

Bridgestone Customer Retention Prediction Team Lead

Acted as the project manager for a team of data scientists to develop a model for predicting the following month's top 100,000 tire buyers using Bridgestone's customer behavioral history so Bridgestone can target potential tire buyers as part of its marketing campaign. We built the model using a 40 gigabyte data set consisting of 280 million data points, 6 million unique customers and 9 million unique vehicles. The data set contained customer data from January 2015 to October 2018. During the final competition showcase, my team's model came out on top with an 11.4% retention rate which was 500% better than a random benchmark. The optimal retention rate was about 25%.