MUBARAK GANIYU

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EDUCATION

Vanderbilt University | Nashville, Tennessee

Master of Science in Data Science — May 2023
- **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

Bachelor of Engineering | Major: Mechanical Engineering, **Minor:** Quantitative Methods — May 2021
- **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 | Nashville, Tennessee

Data Analyst Intern — May - Aug 2022
- Brainstormed 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 multiple mapping dashboards that utilize Tableau to locate the most carbon intense counties in the U.S.

Vanderbilt University Data Science Institute

Undergraduate Summer Research Intern | Link to Website — June - Aug 2020
- 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

Student Ambassador | The Wond'ry Quantum Studio Lead — May 2018 - present
- Manage the Wond'ry Quantum Studio, a quantum computing program at The Wond'ry, by moderating an eight-month quantum course for more than 10 active participants and organizing quantum computing events for the general public
- 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 pis and other electrical components to build, code and deploy interactive robots called TJbot

TECHNICAL PROJECTS

FIFA Explora | Link to Dashboard

Used SQL to prepare a data model for loading over 100 megabytes of data on 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. This project was the final project for my **Database Management Systems** class.

LEADERSHIP EXPERIENCE

Bridgestone Customer Retention Prediction Team Lead

Acted as the project manager for a team of 4 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%. This project was conducted as part of my **Leading Data Science** class activities.