

OLABUNTU BABATUNDE AFEEZ

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EDUCATION

University of Ibadan, Ibadan, Oyo, Nigeria

2018 to 2024

Bachelor of Science (B.Sc.) in Biochemistry

Final Grade: Second Class Honors

SKILLS SUMMARY

- **Language:** Python, SQL, Mysql, HTML and CSS
 - **Area of Expertise:** Deep Learning, Machine Learning, Web development, Automation, Database manipulation and Molecular Docking
 - **Frameworks / Modules:** Pytorch, Scikit-Learn, pandas, Flask, Matplotlib, Seaborn, Selenium
 - **Platforms:** Vscode, Jupyter Notebook, PyRx, MySQL Workbench, Discovery studio
 - **Operating System:** Linux and windows
 - **Soft Skills:** Outstanding communication and interpersonal skills, Leadership and effective teamwork capabilities, Strong organizational skills, Proficient in time and project management, Excellent problem-solving abilities
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WORK EXPERIENCE

Research Assistant at NIB (Nutrition and Industrial Lab) University of Ibadan

- At NIB we focus on Drug Discovery where I build Algorithms use to predict Ki and Ic50 of compounds against a particular biological protein using my Deep learning and Machine Learning Skill
- I also engaged in Data analysis, Automation and Data extraction from different data bases and sites for the Laboratory use
- I also built a Laboratory website for NIB using my digital skills like Python, HTML and CSS

Machine Learning Internship at Mentorness | [LINK](#)

- At Mentorness I was involve in Data cleaning, Data Manipulation and gaining insights from Data
 - I also built various Regression and Classifying Algorithms use for different purpose e.g A classifier use to detect if a Fastag Transaction is fraudulent or not
 - I was also expose to how to present my result, interpret and also give recommendation base on the result gotten
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PROJECTS

Machine Learning

- A Python script on a **RandomForestRegression** model built to predict the Bioactivity(IC50) of drug against Cyclooxygenase 2 enzyme causing inflammation using Python and machine Learning | [LINK](#)

- A Python script on a **DecisionTreeClassifier** Model built to predict if a Fastag transaction is fraudulent or not | [LINK](#)
- A Python script on an **XGBRegressor** model built to predict the Bioactivity(IC50) of phytochemicals against HMG-COA reductase which is important in Cholesterol synthesis using Python and machine learning | [LINK](#)

Deep Learning

- A python script on using **CNN** (Convolutional neural network) to detect if an MRI of the brain as tumor or not | [LINK](#)
- A python script on using **Neural Network** to classify if a Breast tumor is cancerous (Malignant) or not cancerous (Benign) | [LINK](#)

Bioinformatics

- A python script on Blasting covid 19 protein against NCBI database | [LINK](#)
- A python script on Pairwise alignment (global and local) | [LINK](#)

Web Development

- I built my personal website using HTML, CSS and Python(Flask) | [LINK](#)
- A Python script using Streamlit to create a voting website for my faculty | [LINK](#)

SQL

- A folder where I used HTML and CSS for the frontend for a job search website, Flask (Python) was used for the backend and SQL, MySQL and SQLAlchemy was use in the saving of applicant's information in the database and information from the Database was also displayed on the site | [LINK](#)

Automation and Web scraping

- A python script to extract all data from Swiss ADME | [LINK](#)
- A python script to extract canonical smiles from Pubchem | [LINK](#)
- A python script to scrape data from Jumia (an e-commerce website) | [LINK](#)

Follow the Link to my Personal Website for more Work | [LINK](#)

CERTIFICATES

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|---|---|-------------|
| • | Datacamp Introduction to Python Certificate | 2023 |
| • | Datacamp Intermediate Python Certificate | 2023 |
| • | Mentorless Machine Learning Internship Certificate | 2024 |

