

# Mukhtar O. Raji

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## WORK EXPERIENCE

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Monmouth Cards Automatic Sports Card Reader Remote

Computer Vision Software Engineer (Freelance) November 2022 – August 2023

- Led a team of 4 to design, and build a website and desktop app to automate uploading of trading cards to several marketplaces including eBay and Shopify
  - Built a desktop app that scans card images, finds required tags from the found texts, scans Beckett to get the price of the card using the found tags and saves the card tags and prices into a database with the help of an API
  - Utilized several python libraries such as OpenCV, PIL, pytesseract, PaddleOCR, requests, urllib, BeautifulSoup, regex, os, sys, shutil, playsound, pyinputplus and tools such as jTessBoxEditor and Serak tesseract trainer
  - Performed series of optimizing techniques to conclude the project at 95% accuracy
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Image Recognition App Design & Implementation Remote

Computer Vision Software Engineer (Freelance) November 2022 – December 2022

- Constructed a detailed design process with algorithm flowcharts, and expected design view of the final app
  - Built the image recognition app's GUI using OpenCV, implemented object detection using a pretrained YOLO model and finally implemented color detection of detected objects using machine learning models
  - Utilized several python libraries such as NumPy, OpenCV, os and sklearn
  - Performed series of tests to ascertain the accuracy of the app which produced a final result of 90% accuracy
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Credit Card Defaulters Classification and Prediction Remote

Data Scientist (Freelance) April 2022 – May 2022

- Built a system that helped to formulate strategies and make better informed decisions on new applications of credit cards through machine learning recommendations
  - Showcased company's customer features from the result of deep data analysis on the defaulters' data using standard data quality control and analytical techniques
  - Built machine learning models for predicting defaulters with an accuracy score of more than 80%
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Topic Modelling For Social Computing Task Remote

Data Scientist (Freelance) March 2022 – March 2022

- Built algorithms for auto-processing social media tweets into groups

- Utilized python's natural language processing (NLP) libraries in conjunction with topic modelling techniques such as LDA and LSA to analyze and build a classification system
- Produced highly accurate results of above 91% accuracy in successful grouping of the tweets

Hamoye AI Labs

Full-Time Remote

Data Scientist

July 2021 – November 2021

- Built and presented solutions using machine learning models to produce faster insights into data that other companies can use to make more informed decisions
- Collaborated with a team of 23 members to analyze and build machine learning models specific to Covid-19 patients and Airplane accidents
- Built several machine learning models for prediction with accuracy scores of more than 80%

## LEADERSHIP AND VOLUNTEERING EXPERIENCE

Professionals In Data

Remote

Team Lead (Volunteer)

July 2022 – Present

- Train aspiring data scientists and data analysts by providing mentorship and also leading group projects
- Past projects include 'Sentiment Analysis of Elon Musk's tweets: The effect on Tesla's stocks', 'Prediction of credit card defaulters using machine learning', and 'Human vs Machine-based Analysis: What affects the gross profit of IMDB's top rated 1000 movies?'

## EDUCATION

University Of Ilorin

Kwara, Nigeria

Electrical/Electronics Engineering

October 2016 - December 2022

## SKILLS & LANGUAGES

Technical Skills: SQL, Python, NumPy, SciPy, Pandas, Scikit-learn, Machine Learning, Matplotlib, Seaborn, Panel, hvplot, holoviews, Data Visualization & Storytelling, Excel, Tableau, Data Manipulation and Analysis, OpenCV, TensorFlow, Keras, Pytesseract, Computer Vision, Google DialogFlow, Natural Language Toolkit (NLTK), Gensim, Deap, Pattern, Textblob, Natural Language Processing (NLP), Artificial Intelligence, Git, Github, API Integration

Soft Skills: Problem Solving, Effective Communication, Teamwork, Time Management, Leadership

Languages: English, French, Arabic, Yoruba

