Jesutobiloba Salam

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EDUCATION

University of Saskatchewan — Saskatoon, SK
Bachelor of Science in Computer Science — *Sep. 2023 – May 2027*

EXPERIENCE

- Developed a deep learning heart disease detection system using **TensorFlow, Keras, and convolutional neural networks (CNNs)** to predict the presence of disease from MRI images.
- Created a machine learning model for **the MNIST dataset (handwritten digit images), achieving 95% accuracy in both training and testing phases.**

Machine learning Developer — Oct. 2022 – June 2023

Robotics and Artificial Intelligence Nigeria (R.A.I.N) — *Oyo, NG*

- Developed and deployed advanced AI and machine learning systems to optimize performance and efficiency.
- Collaborated with subject matter experts to gain insights into specialized fields, enhancing the quality and relevance of training data.
- Extracted, analyzed, and augmented training data to expand and improve the existing database.

AI Research Engineer intern — July 2023 – July 2023

Neuromatch — *Princeton, NJ*

- Led the research team, delivering multiple presentations on AI advancements and project progress.
- Designed, developed, and deployed a **sentiment analysis software using a Twitter dataset, achieving a 91% accuracy on the testing set.**

Chair — October 2024 – present

Artificial Intelligence Saskatchewan Student Network (AiSK-SN) — *Saskatoon, SK*

- Currently lead a student-led initiative aimed at fostering an inclusive AI ecosystem across Saskatchewan.
- Organize workshops, speaker events, and collaborative projects to educate students on both technical (e.g., ML, deep learning) and applied aspects of Artificial Intelligence.
- Spearhead outreach and community engagement efforts to connect students with real-world AI research, industry mentors, and interdisciplinary applications.

PROJECTS

Stock price project | *Python, Flask, HTML, Jupyter notebook* June 2023 – Sep.2023

- Developed a full-stack web application using Flask for the backend and HTML/CSS for the frontend.
- Developed forecasting functionality using the **yfinance library** to predict stock prices for companies like Google, Microsoft, and Apple based on user-selected metrics (weeks, days).
- Utilized the Pickle library in Python to save stock price data, enabling efficient display and retrieval on the web application.
- Implemented decision support logic to recommend optimal times for purchasing stocks of specified companies.

Driver Drowsiness detection system | *Python, Opencv, dlib, Git* May 2023 – present

- Developed an AI-driven system to detect drowsiness in individuals based on eye and mouth distances.
- Utilized OpenCV to continuously monitor eye distance and mouth movements to identify signs of drowsiness such as yawning.
- Integrated Pygame mixer to alert the driver with sound when eyes appear closed, enhancing safety measures.
- Implemented Haarcascade frontal-face XML file to accurately locate and track the user's face for real-time monitoring.

HACKATHONS AND COMPETITIONS

Best Tech Award – Cultivator's 24-Hour Startup Hackathon
Built "String," a social media platform for STEM students with **personalized, content-based feed recommendations.** Designed and implemented a basic recommendation system prototype leveraging **user input and content tags** to drive engagement.

Technical Skills

Languages: Python, Java, C, SQL, JavaScript, HTML/CSS
Frameworks: Flask, React, NEXTJS, Django, Python GUI
Machine Learning Libraries: NumPy, PyTorch, scikit-learn, TensorFlow, Keras, torchvision

Developer Tools: Git, VS Code, Visual Studio, PyCharm
Libraries: NLTK, pandas, Matplotlib, OpenCV (cv2), torch