

Mahlotle Mavis Masemola

SOFTWARE DEVELOPER

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GitHub: <https://github.com/Mahlotle>

LinkedIn: [Mahlotle Masemola | LinkedIn](#)

Portfolio: [Mahlotle/MyProfilePortfolio \(github.com\)](#)

Objective

A highly motivated and detail-oriented recent graduate in Software Development from Tshwane University of Technology, with hands-on experience in building web applications, artificial intelligence projects, and developing innovative solutions. Eager to leverage my technical skills, creativity, and passion for software development to contribute to a dynamic team and grow within the technology industry

Experience

Intern - TUT 4IR Lab, Pretoria (February 2024 - Present)

- Designed and developed a fully functional e-commerce platform using Django to sell meat products
- Implemented user authentication, product listing, cart management, and payment integrations.
- Developed a responsive user interface with HTML, CSS, and JavaScript.
- Integrated the back-end with MySQL for database management.
- Deployed the application on Render.
- Link: <https://meatbrokerapp.onrender.com>

Project: PDF Chat and Quiz Generator with Streamlit

- Created a Streamlit-based application that allows users to upload PDF documents, engage in interactive conversations with the content, and generate quizzes based on the document
- Implemented chatbot functionality powered by OpenAI's ChatGPT API.
- Developed the feedback mechanism for quizzes with real-time results.

Generative AI Projects(Using Google Collab)

- Gender Classification: Built a machine learning model to classify gender based on images
- Retrieval-Augmented Generation (RAG): Developed a Q&A system utilizing RAG to enhance answer retrieval from specific documents.
- Hate Speech Identifier: Created an AI-powered system to detect and classify hate speech in online text.
- Q&A System: Developed a sophisticated question-and-answer system to handle queries in real time.

Education

AM Mashego Secondary School

2012-2016

Grade12

Tshwane University of Technology

2019-2023

National Diploma in Software Development

Skills & abilities

- ReactJS
- HTML & CSS
- JavaScript
- Django
- MySQL
- NodeJS
- C#
- C++
- Streamlit
- Generative AI
- SDLC

Certifications

- Power Platform Developer Associate, Microsoft Certified
- Power Platform App Maker Associate, Microsoft Certified

References

Available upon request.