


Nokwanda Buthelezi

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Professional Summary

Passionate Software Developer and AI Innovator with hands-on experience in Python, Django, React.js, and Machine Learning. Skilled in building impactful projects across healthcare, education, and agriculture, with a strong ability to solve real-world problems using technology. Proficient in both independent and collaborative development, with excellent problem-solving, communication, and project management skills.

Technical Skills

- **Programming Languages:** Python, C++, Java, JavaScript, HTML, CSS, SQL
- **Frameworks & Libraries:** Django, Flask, React.js, Node.js, Bootstrap, TailwindCSS
- **AI & Data Science:** Machine Learning, Deep Learning, TensorFlow, Keras, OpenCV, Pandas, NumPy
- **Databases:** MySQL, SQLite3
- **Tools & Platforms:** Git/GitHub, Streamlit, Figma, VS Code
- **Soft Skills:** Problem Solving, Team Collaboration, Project Management, Communication

Projects

AI Study Buddy – Accessible AI Chatbot

 [github.com](#) | [live demo](#)

- Developed an accessible AI chatbot for deaf students with summarization and study support features.
- Integrated text-to-speech and speech-to-text for inclusivity.

Sentiment Analysis Tool – Streamlit App

 [github.com](#) |  [live demo](#)

- Built a sentiment analysis web app to classify user reviews and feedback.

- Implemented machine learning models for natural language processing.

AI Resume Builder

 [github.com](#) |  [live demo](#)

- Designed an AI-powered system to generate professional resumes automatically.

Apple Disease Detector – CropCare AI

 [github.com](#) |  [live demo](#)

- Built an image classification model to detect apple crop diseases using deep learning.

SmartEdu Grade 12 Content Generator

 [github.com](#) |  [live demo](#)

- Created an AI-powered platform to generate educational content for Grade 12 students.

Sms Spam Classifier

 [github.com](#) |  [live demo](#)

- The AI Spam Classifier is a machine learning project that automatically detects whether a given email or message is spam or not spam (ham).

SmartEdu Online Tutor

 [github.com](#) |  Demo

- Created an AI-powered platform to generate educational content for Grade 12 students.

Plant Disease Detection

 [github.com](#) |  [live demo](#)

- Developed a machine learning model to identify plant diseases and recommend treatments.

Adult Census Bias Analysis Model

 [github.com](#) |  [live demo](#)

- Conducted bias analysis on census data to evaluate fairness in income prediction.

Education

- **National Diploma in Information Technology (Software Development)**
Tshwane University of Technology (2019 – 2024)

- **Matric (Grade 12 Certificate)**
Maceba Secondary School (2016)

Work Integrated Learning

Software Developer Intern – TUT 4IR Lab (01 January 2024 – 31 December 2024)

- Worked on AI-driven projects in healthcare, education, and agriculture.
- Designed and deployed prototypes using Django, Streamlit, and React.js.
- Collaborated in an agile team to research, build, and present solutions.

Reference available upon request