

Caleigh Goliath

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Professional Profile

Motivated **IT graduate and AI developer** with hands-on experience creating intelligent, data-driven applications that enhance learning, automate workflows, and support ethical AI practices. Skilled in **Python, C#, and AI integration**, with a strong foundation in **Machine Learning, Natural Language Processing (NLP), and Prompt Engineering**.

Passionate about building solutions that make technology more human — combining automation, analysis, and creativity to deliver measurable impact.

Education

Diploma in Information Technology (Software Development)

Nelson Mandela University, Gqeberha — 2024

Career Objective

To contribute to innovative AI and Machine Learning projects by leveraging my programming, data analysis, and prompt engineering skills to build practical, ethical, and scalable intelligent systems.

Key Projects

AI Chatbot (EduBot)

Group Project | Botpress Studio

- Built an educational chatbot to assist students with personalized learning interactions.
- Implemented NLP-based conversation flows for tutoring and question answering.
- Tools: Botpress, GPT-based model, Webchat Integration

AI-Powered Study Assistant

Group Project | Botpress Cloud

- Developed an AI chatbot that summarizes notes, explains concepts, and generates quizzes.
- Reduced revision time and improved active recall through interactive learning.
- Tools: Botpress, LLMs, Knowledge Base, Figma

Custom Marketing Generator

Individual Project | Google Sheets + Gemini API

- Automated marketing content creation using Google Apps Script and Gemini API.
- Designed a Google Sheets frontend for seamless text generation and editing.

Sentiment Analysis

Group Project | Python

- Built a model to analyze and classify sentiment from user feedback.
- Used Scikit-learn and NLP preprocessing for training and evaluation.

AI Resume Builder

Individual Project | Python + Google Gemini API

- Created an AI-powered resume generator that formats and optimizes professional resumes.

AI Meeting Summarizer

Group Project | NLP + Summarization Model

- Designed a system to convert meeting transcripts into concise summaries and action items.

Bias Report (Trustworthy AI)

Group Project | Research + Ethics Evaluation

- Conducted an AI bias audit and developed recommendations for fair model performance.

Technical Skills

Programming Languages: Python, C#, JavaScript, SQL, HTML / CSS

AI & ML Tools: TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

Platforms: Botpress, Google Gemini API, Google Cloud, GitHub, Figma

Core Skills: NLP, Prompt Engineering, Data Analysis, Automation, Model Evaluation, Technical Documentation

Professional Certifications (Coursera)

- AI For Everyone – *DeepLearning.AI*
- Introduction to Artificial Intelligence (AI) – *IBM*
- AI Essentials – *Google Cloud*
- AI Foundations: Prompt Engineering with ChatGPT – *DeepLearning.AI*
- Generative AI with Large Language Models – *DeepLearning.AI*
- Python for Data Science, AI & Development – *IBM*
- Supervised Machine Learning: Regression and Classification – *Stanford / DeepLearning.AI*
- Advanced Learning Algorithms – *DeepLearning.AI*
- Unsupervised Learning, Recommenders & Reinforcement Learning – *DeepLearning.AI*
- Introduction to Responsible AI – *Google Cloud*
- Trustworthy AI: Managing Bias, Ethics, and Accountability – *DeepLearning.AI*

Core Competencies

- AI System Design & Integration
- Chatbot and NLP Development
- Machine Learning Workflow Implementation
- Data Visualization & Feature Engineering
- Ethical & Responsible AI Practices
- Cross-functional Team Collaboration

Personal Branding Statement

“Building intelligent, ethical, and user-centered AI solutions that make learning and technology more accessible.”