

# USMAN HASSAN

## AI Engineer

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## PROFILE

AI Engineer with extensive experience in developing machine learning applications and Generative AI systems. Proficient in model deployment, Large Language Models (LLMs), and cross-functional collaboration. Committed to driving innovation and delivering impactful AI solutions to solve complex, real-world challenges

## SKILLS

### Programming & Tools:

Python, Flask, Beautiful Soup, Selenium, Git, Pandas, NumPy, Matplotlib

### Machine & Deep Learning:

Scikit-Learn (Regression, Classification, Clustering, Ensemble Methods), CNN, RNN, TensorFlow, Keras, Transformers

### Generative AI:

LangChain, Claude, Gemini Pro, Prompt Engineering (CoT, Self-Refine Techniques)

### Cloud & Database

Streamlit, Hugging Face, Render, Heroku, MongoDB, Vercel, CI/CD

## PROFESSIONAL EXPERIENCE

### Carbonetrix | AI Engineer (Present)

- Collaborating with the **team** to develop **AI-powered prototypes** for Carbon Management Apps, focusing on **carbon emissions, sustainability, and biodiversity**.
- Applied **Chain-of-Thought (CoT)** prompting techniques with **Claude LLM model API** to optimize app responses and enhance user interaction.
- Worked closely with software developers to design APIs used for **carbon emissions tracking** and analytics.
- Partnered with product managers to plan and execute project deliverables, ensuring alignment with sustainability goals.
- Worked alongside the Engineering Lead to build and launch Version 2 of the Carbonetrix product using Cursor Agentic AI, significantly enhancing the platform's capabilities. Implemented CI/CD pipelines using GitHub Actions with Vercel for streamlined deployment and faster iteration cycles.

### Hamoye Internship | Data Science Intern

- Conducted data preprocessing and wrangling to analyze the **impact of maternal education on child malaria rates**.
- Presented actionable insights highlighting the correlation between maternal education levels and improved child health outcomes.

## PROJECTS

### Sentiment Analysis

- Developed a sentiment analysis web application utilizing a Hugging Face transformer model, integrated with Streamlit, and successfully deployed on the Streamlit platform

### Language Detector

- Developed a language detection web application achieving 95% accuracy using a Multinomial Naive Bayes model, integrated with Streamlit and Flask for API development, and hosted on the Render platform

### Chat Your Files

- Developed an interactive Chat-Your-Files web application using Streamlit and the Gemini Pro API, allowing users to engage in conversations with different files uploaded

## EDUCATION

### Federal University of Agriculture, Abeokuta (2018–2024)

**B.Eng., Electrical & Electronics Engineering** | Second Class Upper

- Dissertation:** *Development of an Artificial Intelligence Chatbot for Electrical and Electronics Engineering Information Search* — Applied **Artificial Intelligence** techniques to design a chatbot that assists with efficient information retrieval for engineering concepts.
- Technical Writing:** Authored an article on **Natural Language Processing (NLP)**.