Dumisani Mabhugu

Data Scientist | Python Developer | AI Enthusiast

Phone: +91 9182579627 | Email: dumisanimabhugu29@gmail.com | Location: India (Remote)

[LinkedIn Profile](#)   [GitHub Profile](#)   [Twitter/X](#)

PROFILE

Innovative Data Scientist and Full-Stack Developer with expertise in building intelligent systems for agriculture, healthcare, and finance. Proven ability to deploy predictive models, optimize business operations through data insights, and develop scalable web applications. Passionate about using AI to solve real-world problems. Specializing in building end-to-end applications for healthcare diagnosis and agricultural productivity. Conducting statistical analysis and creating automated reporting tools for business data.

TECHNICAL PROFICIENCY

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

Machine Learning: TensorFlow, PyTorch, Scikit-learn, OpenCV, NLP, Deep Learning

Data Analysis: Pandas, NumPy, Tableau, PowerBI, Excel, Data Mining

Web Frameworks: Flask, Streamlit

Tools: Git, GitHub, Google Colab, VS Code, Jupyter

KEY PROJECTS

Disease Prediction & Health App   *Python | Machine Learning*

> Developed a comprehensive health prediction application capable of diagnosing multiple diseases.
> Utilized advanced ML algorithms to analyze patient symptoms and medical history for accurate predictions.
> Designed a user-friendly interface to make healthcare insights accessible to non-technical users.

Agriculture Optimization Platform   *Flask | Data Science*

> Created a precision agriculture app helping farmers predict optimal crops and maximize yield.
> Integrated soil metrics and weather data to provide actionable, data-driven farming recommendations.
> Implemented visualization tools to track crop health and potential production efficiency.

Restaurant Operations Optimization   *React | Python Analytics*

> Built a data-driven application to analyze restaurant performance and optimize menu offerings.
> Leveraged customer data to identify trends, significantly improving operational efficiency/profitability.
> Visualized sales data to help management make informed staffing and inventory decisions.

Financial Sentiment Analysis   *NLP | Deep Learning*

> Engineered an NLP pipeline to analyze financial news and social sentiment with 92% accuracy.
> Deployed the model to provide real-time market sentiment indicators for investment strategies.

Gold Mine Productivity Analyzer   *Data Mining | Tableau*

> Analyzed large-scale mining operation datasets to detect bottlenecks and reduce downtime.
> The application provided real-time monitoring of shifts thereby identifying which shift was most productive and which was least productive.

Car Price Prediction Model   *Deep Learning | TensorFlow*

> Constructed a neural network model to estimate used car prices with high precision.
> Performed extensive feature engineering on vehicle specifications to minimize error rates.

Full-Stack Web Application   *Web Development | HTML/CSS/JS*
> Developed a modern, responsive web application featuring dynamic user interactions.
> Implemented clean code architecture ensuring high performance and cross-browser compatibility.

EXPERIENCE

Freelance Data Scientist   *2023 - Present*
> Delivering custom machine learning and web development solutions for international clients.
> Specializing in building end-to-end applications for healthcare diagnosis and agricultural productivity.
> Conducting statistical analysis and creating automated reporting tools for business data.

EDUCATION

BSc in Data Science   *2023 - 2026*
Adikavi Nannaya University

CERTIFICATIONS

> Infosys Certified Python for Data Science
> AI and Machine Learning (Ulearn)
> Power BI (Ulearn)
> Certificate of participation in oracle competition
> C Programming Essentials (CISCO)
> Business Writing (edX)
> Python for Data Science and Machine Learning Bootcamp
> Cloud Computing Swayam