

KATLEGO MASITENG | AI RESEARCHER

LOCATION: JOHANNESBURG, SOUTH AFRICA

PHONE: 061 925 2432 | EMAIL: [kmaстung@gmail.com](mailto:kmaстung@gmail.com)

LINKS: LINKEDIN | [GITHUB](#) | GOOGLE SCHOLAR

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## CAREER PROFILE

DEDICATED AI RESEARCHER AT THE UNIVERSITY OF JOHANNESBURG SPECIALIZING IN THE FOURTH INDUSTRIAL REVOLUTION (4IR). PROVEN ABILITY TO DEVELOP MACHINE LEARNING MODELS TO ADDRESS SOCIETAL CHALLENGES IN SOUTH AFRICA. EXPERTISE IN NLP AND DATA SCIENCE AIMED AT DRIVING ACADEMIC AND TECHNOLOGICAL INNOVATION.

## CORE SKILLS

- ✓ PROGRAMMING: PYTHON (NUMPY, PANDAS), R, SQL.
- ✓ AI/ML FRAMEWORKS: TENSORFLOW, PYTORCH, SCIKIT-LEARN.
- ✓ RESEARCH EXPERTISE: NATURAL LANGUAGE PROCESSING (NLP), DATA VISUALIZATION, 4IR TECHNOLOGIES.
- ✓ TOOLS: STREAMLIT, GITHUB, DOCKER, LATEX.

## PROFESSIONAL EXPERIENCE

AI RESEARCHER | *UNIVERSITY OF JOHANNESBURG* | JAN 2023 – PRESENT

- ✓ CONDUCTING RESEARCH ON 4IR APPLICATIONS AND MACHINE LEARNING INTEGRATION IN SOUTH AFRICAN CLASSROOMS.
- ✓ DEVELOPING AI-DRIVEN CHATBOTS TO ENHANCE POSTGRADUATE TEACHING AND ADMINISTRATIVE EFFICIENCY.
- ✓ COLLABORATING ON INTERDISCIPLINARY PROJECTS FOR DIGITAL TRANSFORMATION IN PUBLIC SERVICES.
- ✓ DATA ANALYST INTERN | *UJ TECHNOPRENEURSHIP CENTRE* | JAN 2022 – DEC 2022
- ✓ OPTIMIZED DATA COLLECTION FOR STUDENT ENGAGEMENT MODELS USING PYTHON, IMPROVING REPORTING ACCURACY BY 20%.

## EDUCATION

MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE | *UNIVERSITY OF JOHANNESBURG* | 2024

RELEVANT MODULES: MACHINE LEARNING, ETHICS OF AI, 4IR STRATEGY.

DISSERTATION: "AN INTELLIGENT CHATBOT FOR ENHANCING STUDENT ENGAGEMENT IN SOUTH AFRICAN HIGHER EDUCATION".

BACHELOR OF SCIENCE IN COMPUTER SCIENCE | UNIVERSITY OF  
JOHANNESBURG | 2021

**SELECTED PUBLICATIONS**

MASITENG, K. (2025). "*ARTIFICIAL INTELLIGENCE (AI) AS A TOOL TO ADDRESS ACADEMIC CHALLENGES IN SOUTH AFRICAN HIGHER EDUCATION.*" [UJ CONTENT REPOSITORY](#).

MASITENG, K., ET AL. (2024). "*EXPLORING THE ETHICAL AND SOCIAL IMPACT OF AI IN DEVELOPING ECONOMIES.*" [UJ PURE REPOSITORY](#).

**REFERENCES**

AVAILABLE UPON REQUEST.