

Nyashadzashe Tamuka

5A Chiraz Place
Box 156 Glen Erasmia
Kempton Park
1638
Johannesburg, Gauteng
ID number: **9504136331180**
Phone: **+27786608755**

Email: tnyashadzashe@gmail.com

LinkedIn profile: <https://www.linkedin.com/in/nyashadzashe-tamuka-379686b3>

SUMMARY

I am passionate and experienced in Software Development and Data Science. I possess 3 years of experience in tutoring Computer Science. Diligent academia with strong analytical and research skills. A graduate who has excellent communication and presentation skills.

WORK EXPERIENCE

Computer Science assistant lecturer at University of Fort Hare, South Africa from February 2017 to November 2020.

Main duties performed:

- Assisting undergraduate students during programming practicals.
- Assistant research supervisor.
- Tutoring programming to postgraduate students.
- Assisting Honours students in developing machine learning models.
- Marking practicals.

IT and Quantitative Techniques Lecturer at Richfield Graduate Institute of Technology, Kempton Park Gauteng from February 2019 to April 2019.

Main duties performed:

- Assisting students during IT programming practicals.
- Producing and compiling lesson plans.
- Assessing students and providing feedback.
- Conducting lecturing sessions with long-distance students on Saturdays.
- Assisting students during IT programming practicals.
- Delivering Database systems, Mathematics, Human Computer Interaction, Quantitative Techniques, Data analysis, Java programming, and IT security lectures.

PUBLICATIONS AND RESEARCH PROJECTS

- BSc Honours in Computer Science research project on the classification of video traffic streaming using Machine Learning algorithms.

- Published an article based on my Honours research with Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2019: **Tamuka, N.** and Sibanda, K., 2019. Modeling the Classification of Video Traffic Streaming Using Machine Learning. In: *SATNAC 2019*. [Online] Fairmont Zimbali Resort, Ballito: SATNAC. Available at: <<http://www.satnac.org.za/proceedingsn2.html>>.
- Published articles with the IEEE explore2020: **Tamuka, N.** and Sibanda, K., 2020, November. Real-time customer churn scoring model for the telecommunications industry. In *2020 2nd International Multidisciplinary Information Technology and Engineering Conference (IMITEC)* (pp. 1-9). IEEE.
- Moyo, L., Sibanda, K. and **Tamuka, N.**, 2020, November. A Model for Wireless Signal Path Loss using Radiosity Technique. In *2020 2nd International Multidisciplinary Information Technology and Engineering Conference (IMITEC)* (pp. 1-6). IEEE.
- Real-time customer churn prediction model using Machine Learning algorithms.

EDUCATION

Institution Name: University of Fort Hare
Location: Eastern Cape, South Africa

BSc Computer Science and Physics (cum laude) February 2015 – November 2017
 Honours in Computer Science (cum laude) January 2018 – November 2018
 Master's in Computer Science – February 2019 – September 2020
 (NRF and Telkom Centre of Excellence funded)

SKILLS

- Proficient in Java, Python, C++, and VB.NET programming to develop software.
- Data structures and algorithms.
- Software Development Life Cycle (SDLC) for software design and development.
- Software Engineering.
- UML use case diagrams.
- Requirements elicitation.
- Requirements analysis.
- Machine learning algorithms e.g., clustering, decision tree learning, linear regression, logistic Regression, Support Vector Machines for predictive and classification modeling.
- Excellent knowledge of Python data mining libraries e.g., scikit-learn, NumPy, pandas, matplotlib and seaborn for data modelling and model evaluation.
- Continuous learning.
- Statistical analysis.
- Natural Language Processing.
- Google Analytics.
- Keras.
- Rest APIs.
- SQL.

- Amazon Web Services (AWS) EMR to process big data.
- Excellent data visualization skills using Microsoft Power BI and Tableau.
- Ability to create websites using HTML and CSS.
- Developing android applications using Android Studio.
- Linux.
- Ability to extract and transform data using Query editor in Microsoft Power BI.
- Excellent knowledge on interpreting complex data sets, analyzing results using machine learning techniques.
- Providing ongoing reports using descriptive models.
- Ability to develop models on IBM cloud using IBM Watson Studio.
- Good report writing and presentation skills.
- Pivot tables and VLOOKUP.
- Knowledge of Apache Spark, Apache Hadoop, Sqoop, MapReduce programming, and Ambari to process big data.
- Strong analytical skills to extract insights from raw data.
- Excellent teamwork skills.
- Capacity to work under pressure.
- Ability to work under minimum supervision.

REFERENCES

- Miss Bongisa Dyosoba – Computer Science lecturer at University of Fort Hare: bdyosoba@ufh.ac.za 0787657219.
- Professor Khulumani Sibanda – Senior lecturer at the University of Fort Hare: ksibanda@ufh.ac.za 0832885170.
- Dr. Zelalem Shibeshi – Senior lecturer at Rhodes University: z.shibeshi@ru.ac.za 0730101651.
- Mr. Royal Goronga – Senior Lecturer at Richfield Graduate Institute of Technology, Kempton Park: gorongaroyal@gmail.com 0635511872.