

Malungisa F Mndzebele

Decorah, IA 52101

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Profile

Detail-oriented **data analyst** familiar with gathering, cleaning, organizing, visualizing, and modeling data for use by technical and non-technical personnel. Advanced understanding of statistical, algebraic, and other analytical techniques with a strong background in Python and R programming.

EDUCATION

Bachelor of Arts: Luther College, Decorah, IA - May 2021

Major: Data Science **Minor:** Mathematics

TECHNICAL SKILLS

Skills: Python, GitHub, Machine Learning, Data Visualization, Predictive Models, Deep Learning, HTML, SQL, R, JavaScript, CSS.

Tools and Software: MS Excel, Pandas, Scikit learn, matplotlib, Tableau, TensorFlow, Anaconda, RStudio, MySQL, PostgreSQL, MS Office Suite, IBM Watson Studio, IBM Cloud, Windows 7/8/10, Linux, Mac OS

TEAM PROJECTS

Predicting Overall Rating of FIFA 19 Players

- Used multiple regression model in R to determine the best predictors for player's overall rating.
- Applied the method of removing least significant predictors using p-values and utilized stepwise regression to achieve a 94% R-squared for the final model.
- Results documented the most significant predictors and their interactions for a player's overall rating.

Classification of Five different hand postures

- The problem we tackled was accurately classifying hand posture positions based on a series of coordinates using python.
- Used SGD classifier and Decision tree machine learning algorithms to make predictive models. PCA was applied to reduce number of components.
- Produced the best model with the Decision tree with score of 96%. Communicated results to other students and professors through a formal presentation

WORK EXPERIENCE (LinkedIn link: www.linkedin.com/in/malungisa-mndzebele-834300176)

Luther College | Decorah, IA - April 2018 to May 2021

Custodial Department, Student Manager

- Responsible for making sure the building is cleaned and well presented
- Supervise peer student workers to ensure that all get to work on time, have work to do while on the clock and leave at the appropriate time
- Ensuring efficiency by training new student workers and answering questions
- Promoting a positive and hospitable work environment by communicating with the supervisor all student worker's questions and concerns.

ACTIVITIES

Entrepreneurship Club | Decorah, IA - September 2017- May 2021

Participated in activities which provided an engaging and interactive way of learning about leadership and entrepreneurship.

Actively participated in a student-led refrigerator rental business.

HONORS

Davis United World College Scholar, Selected Participant

Dean's Scholarship, Recipient

Diversity Enrichment Scholarship, Recipient

Pi Mu Epsilon, the National Math Honor Society, Member