# **FAITH NEEMA BENSON**

# **Mathematician & Machine Learning Scientist**

@ bensonfaith27@gmail.com

**J** (+254) 793994385

Kilifi, Kenya

in faith-neema-benson

# **EXPERIENCE**

#### **Data Science Fellow**

#### Ishango.ai

- **■** September 2021 present 2021 **P** Kigali, Rwanda
- Build unsupervised anomaly detection method to predict failures in a hydroelectric power plant.

# Sales and Marketing Personnel

#### **Diamond Industries Limited**

- Marketing and selling various soap products produced by Diamond Industries Limited.

### Freelance Writer

### https://www.upwork.com/

- March 2021 April 2021
- Mountain View, United States
- Solving mathematical questions.
- Reviewing journals and writing argumentative essays.
- Data analysis.

### Statistian Attachee

## **Kemri Wellcome Trust**

- **a** Jan 2016 April 2016
- Kilifi, Kenya
- Collected data and carried out data entry.
- Assisted in data analysis of both quantitative and qualitative data.
- Worked on translation and transcription of research tools.
- Attended scientific seminars and departmental meetings.
- Conducted study literature reviews.

# Marketing Personnel

#### **Equity Bank**

- **Sep 2015 Dec 2015**
- Kilifi, Kenya
- Carried out marketing of services offered by Equity Bank which included opening of saving accounts and mobile banking.

#### Field Worker

#### Kemri Wellcome Trust

- **May 2011 May 2012**
- Kilifi, Kenya
- Took study participants through informed consent forms and obtained their consent for study participation.
- Collected data and carried out data entry.
- Translated research tools.

# **EDUCATION**

# Master's in Machine Learning African Institute for Mathematical Sciences, Ghana

Oct 2019 - March 2021 Grade: Pending

Master of Science in Mathematical Sciences

#### **University of Cape Town, South Africa**

Sep 2018 – June 2019 Grade: Distinction

Bachelor of Science in Mathematics Maasai Mara University, Kenya.

Jan 2013 - Dec 2017 Grade: First Class Honours

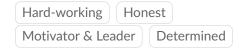
# **SKILLS**



# **AWARDS**

- MasterCard Foundation Scholarship, AIMS-South Africa Sep 2018
- African Master in Machine Intelligence Scholarship, AIMS-Ghana Oct 2019

# **STRENGTHS**



# **LANGUAGES**

English Swahili



• Prepared and submitted weekly report.

# Teaching Assistant

# Mdzongoloni High School

- Feb 2011 April 2011
- Kilifi, Kenya
- Taught Mathematics and Physics.

# **PROJECTS**

# Implementation of Discrete Element Method (Master Thesis)

#### yade, latex

- March 2019 May 2019
- Implemented a discrete element method to study the behaviour of granular material flow in rotating drums.

# Thorax Disease Detection with Deep Learning (Master Thesis)

### python, pytorch, latex

- iii Oct 2020 Feb 2021
- Developed a deep learning algorithm to analyse medical images

# **CONFERENCE ATTENDED**

Advances in Mathematical Optimization, Compact Course and Summer School

**Dec** 2018

South Africa

#### Mathematical Sciences and Application

**J**une 2019

South Africa

# **CERTIFICATION**

- AIMSSEC Community Give Back Programme
- Data Analysis and Visualization BootCamp Udemy
- Introduction to Data Science in Python Coursera
- Machine Learning Practical Workout Coursera
- Neural Networks and Deep Learning Coursera
- Improving Deep Neural Networks Coursera
- Al for Medical Diagnosis Coursera
- Word Of Faith Bible Institute

# REFEREES

#### **Prof. Francis Oduro**

- @ AIMS, Ghana

P.o. Box 676

Cape Coast, Ghana

#### Dr. Simukai Utete

- @ AIMS, South Africa
- ✓ simukai@aims.ac.za

6 Melrose Road, Muizenberg 7945 Cape Town, South Africa

#### Prof. Amina Abubakar

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