

# ZEDEKIAH AMBOGO OCHIENG

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## EDUCATION

### MACHAKOS UNIVERSITY

Bachelor of Science (Mathematics and Computer Science)

Major in Computer Science; Minors in Mathematics and Statistics

Second Class honors (Upper Division)

Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Data structures and Algorithms;

Artificial Intelligence, Machine Learning, statistics, multi-variable calculus and linear algebra.

Machakos, Kenya

Sept 2019 - May 2024

## WORK EXPERIENCE

**HIVE** (8 employee venture-backed recruitment startup) – Freelance Job contract.

Machakos Kenya

Data Science Intern

April 2023 – Dec 2023

- Developed Sanskrit Text-to-Speech System using Tensorflow, python libraries and python programming language which increased the company revenue by 30%
- Aggregated unstructured data from Kaggle, google dataset search, Statista and Primary data to build the foundation of a new product; led to \$1000 in new revenue
- Learned and deployed the webapps which was designed and developed by the team in Microsoft Azure, Google Cloud Platform and Amazon web Services which resulted into greater performance by 15% compared to deployment in Gradio that the company was using by default.

### KENYA NATIONAL BUREAU OF STATISTICS (KNBS)

Nakuru, Kenya

Research Assistant and Data Analyst Intern

Jan 2023 – April 2023

- Led the transition to a paperless practice by implementing an electronic booking system and a faster, safer and more accurate business system; reduced cost of labor by 30% and office overhead by 10%
- Analyzed data from 25000 monthly active users and used outputs to guide marketing and product strategies; increased average website engagement time by 2x, 30% decrease in drop off rate, and 3x shares on social media

## UNIVERSITY PROJECTS

### WEATHER PREDICTION MODEL

Aug 2023

- Designed and implemented weather prediction model in 4-person team using Python, 2-layered Neural network, Keras and numpy in 3-day hackathon and emerged the winner among 56 participants in our school
- Enabled users to be recommended weather based on 50+ data points; awarded most innovative project by the Organizing committee

### FACIAL VERIFICATION SYSTEM –RESEARCH BASED PROJECT

May 2023

- Designed and implemented Facial verification system individually using python, tensorflow, openCV, Siamese Neural network and matplotlib. Performed a real time test and got 100% calculated metrics using recall and precision.
- Awarded First Prize in Computing's Senior Design Projects (out of 100 teams)

## ACTIVITIES

### HACKATHON COMPETITIONS

Machakos, Kenya

Head of Events

Sept 2022 – Present

- Founded the first ever Hackathon Series to organize Hackathon completions for 500 students.
- Organized and advertised 10+ quarterly networking events, Coding competitions with 300+ participants in 3 universities in Kenya.

### CLUBS AND SOCIETIES (MLSA & GDSC)

Machakos, Kenya

Project coordinator

Sept 2022 – Present

- Managed the launch of new booking system to improve organization of events; system now used across university

## ADDITIONAL (SKILLS AND COMPETENCE)

**Technical Skills:** Advanced in SQL, Python, Javascript, HTML/CSS; Proficient in Tableau, Python Libraries (matplotlib, numpy, pandas, scipy, scikitlearn), Tensorflow, Advanced in excel, Experience in data modeling and Ms Office suite

**Languages:** Fluent in English

**Certifications & Training:** Intermediate SQL, python and Problem Solving Skills certification – HackerRnk (2022)

**Awards:** Chancellors' Scholarship 2022/2023 for academic excellence; Won Best innovator award – unleash African economies 2023, MksU Hackfest award 2023, Metacom Competiton out of 100+ participants (2022).