

Dennies Bor

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PROFESSIONAL SUMMARY

I am a passionate technician and a student eager to contribute to team success through innovation and creativity. I am currently focused on artificial intelligence(Regression, NLP, Computer Vision) and its application in solving real-life problems.

SKILLS SUMMARY

- **Languages:** Python, JavaScript, SQL, Bash, Markdown(XML, HTML, LaTeX)
- **Frameworks:** Scikit, Django Rest, OpenCV, NLTK, SpaCy, Gensim, TensorFlow, Keras, Django, Flask, ReactJS
- **Tools:** Proxmox, Docker, GIT, PostgreSQL, MySQL, SQLite, Nginx
- **Platforms:** Linux, Web, AWS(ec2, Lambda, S3), GCP(BigQuery)
- **Soft Skills:** Agile Workflow Management(Scrum), Quality Assurance(Understanding of Quality Tools), Writing, Team Lead, Time Management

EXPERIENCE

- **Safaricom Technology, Nairobi**
Intern - Network Assurance *May 2019 - Aug 2019*
 - Service unavailability reporting
 - Radio and core networks KPIs monitoring
 - Devices and terminals testing
- **Kenya Airways, Nairobi**
Engineering Intern *Nov 2018 - Feb 2019*
 - Boeing 737-8, 787 Dream-liner, Embraer 190, aircraft electronic system, wheel assembly and power-plant troubleshooting, maintenance, and repair
 - Maintenance planning, quality assurance and material management
- **Broglie Space Center, Malindi**
Engineering Intern *Aug 2018 - Nov 2018*
 - Introduction to artificial satellite tracking, telemetry acquisition, rocket and spacecraft design, and remote sensing applications
 - Radio frequency links maintenance
 - Conceptualized design of a launch vehicle compatible with the station platform

PROJECTS & PROPOSALS

- **NLP based food recommendation system:** (DSI Module 3 Project) A RESTful API that takes user input and matches the best restaurant. NLP tasks were Semantic search, sentiment analysis, and topic modeling of Yelp restaurant reviews.
Tech: Python, ReactJS, MapboxJS, Gensim, Spacy, NLTK, TensorFlow (April '22)
Link: [module-3](#)
- **Cattle Behavior Monitoring(Computer Vision, and Tracking):** (Work in Progress) Flag a potentially sick or distressed animal by monitoring their activity patterns.
Tech: Python, Flask, ReactJS, PyTorch, Detectron2, Norfair, OpenCV. (April '22)
Link: [DSI Capstone](#)
- **A comparison of Twitter and Online News Tabloids in Kenya:** Topic modelling using transfer learning
Tech: Python (April '22)
Link: [Tweepy](#) [GDELT](#)
- **Agricultural Goods Price Prediction in Kenya (Regression):** Predict the agricultural production prices based on fertilizer prices, climate, population, political stability indices, and government policies.
Tech: Scikit, MySQL, Bootstrap(Styling), Django, Plotly, AWS (March '22)
Link: [Regression and Forecasting](#)

EDUCATION

- **Technical University of Kenya** Nairobi, Kenya
Bachelor of Engineering - Aeronautical Engineering; First Class Honors *Sep 2013 - May 2019*
Courses: Communication and Navigation Systems, Propulsion, Fluid Mechanics, Aerodynamics, Structural Mechanics, Material Science, Control and Instrumentation, Orbital Mechanics, Rocket Missiles

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

- **George Mason University** Washington
Summer Affiliate - Department of Geography & Geoinformation Sciences May 2022 -
- **African Institute of Mathematical Sciences** Capetown, South Africa
Africa Data Science Intensive Program, Jan 2022 - May 2022
Courses: Computer Vision, Regression, Forecasting and Optimization, Natural Language Processing, Introduction to Cloud Computing, Model Deployment and Dashboarding, SQL Database Design, Data Mining and Data Visualization
- **Development in Africa with Radio Astronomy(DARA)** Kenya, & Ghana
Introduction to Astrophysics and Astronomy Sep 2019 - June 2021
Courses: intro to astrophysics and multi-wavelength astronomy, telescope antenna and receiver design, calibration, single-dish and VLBI survey astronomy, data reduction using CASA and Python

WORKSHOPS & CONFERENCES

- **Kenya Space Expo & Conference 2022:** Leveraging Space Capabilities for National Development (June '22)
- **DARA big data hackathon:** Sentiment Analysis of Twitter Data (July '21)
- **Eastern Africa GNSS and Space Weather Capacity Building Workshop:** Influence of Space Weather on Earth Systems (May '19)

INTERESTS

- Systems Modelling
- Spatial data analytics
- Artificial Intelligence for Socio-economic Development
- Active Learning - Reinforcement Learning for Robotics & Edge Devices

REFERENCES

References available upon request