Isaac NDEMA

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https://github.com/script-0 | **https://www.linkedin.com/in/ndema/**
🌍 **English** (Proficient) | **French** (Native)

💻 Top Skills

- **ML :** Common Classifiers & Regressors, CNN, RNN, VAEs, GANs, TensorFlow, Google Colab.
- **Computer Science**: Python, Java, C++, Javascript
  MySQL, MongoDB, Git
- **Soft skills**: Strong organizational skills, Leadership, Teamwork, Problem-solving

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🎓 Education

- **Msc in Computer Engineering at Polytechnic of Yaounde**   Sep 2017 - Jul 2022
  <u>Relevant courses :</u> Data Structures and Algorithms, Software Engineering, System design, Machine Learning and Deep Learning, Web Programming, OOP, Numerical Analysis, Data Analysis, Multi-agent System, Information Theory, Information Security, Quantum Computing, Enterprise Management.
- **IBM Data Science Professional Certificate**   May 2020 - Aug 2021
  Learned Python & SQL, analyzed & visualized data, built machine learning models through 08 courses up to 44 weeks.

📋 Experiences

- **Cloud Engineer Internship at** AEC   Jul 2021 - Sep 2021
  - Designed and implemented an on-demand Azure VPC deployment solution
  - Developed and deployed an API based services to automate the deployment of VMs based infrastructures on Azure.
  - <u>Technologies used :</u> **Microsoft Azure - Bash Script - Python - Flask - Git/Github.**
- **Full Stack Developer (Part-time) at** Yowyob Inc   Mar 2021 - Jul 2021
  - Developed the search engine product of the e-commerce platform https://www.yowyob.com/ using Django and Cassandra in the backend and React JS for the frontend.
  - Developed a one-click nearby location based products, services and shops search experience.
  - Developed an image based products search experience.
  - <u>Technologies used:</u> **NPM - ReactJS - Django - Cassandra - Git/Github - Heroku - CNN.**

🏆 Projects and Awards

- **Mammography and Biopsy AI Assistant** (link)
  - Build a U-Net based segmentation mask on biopsy X-Ray Images.
  - Build an ensemble learning model consisting of CatBoost, LGBM, Random Forest for tabular mammography data.
  - Scored up to 0.87 with the Multiclass ROC AUC
  - All in a web application backed with Flask deployed on Heroku here
  - Here is the Paper describing the methodology used
  - Won the third price of the Machine Learning Project Competition (MLPC 2021)
  - <u>Technologies used :</u> **Python - TensorFlow - Flask - Git - Github.**
- **XVote** (link)
  - Implemented an online voting solution using PHP and deployed it on Heroku
  - Used by more than 350 students to elect the 2020 students executive committee of the school's LIttoral originated student associations of my college (link)
  - <u>Technologies used :</u> **HTML5/CSS3 - PHP - MySQL - Heroku - Git /Github.**
- **renal failure detection model from ultrasounds**
  - Implemented a computer vision model with Tensorflow using transfer learning
  - Handled very little data less than 200 samples

- - Scored up to [0.95](#) with Area Under the Curve metric
  - Ranked 4th over 59 attendees at [Cameroon Advance Analytic Ultrasound Image Challenge by Camair-AI](#)
  - Technologies used : **TensorFlow - Ktrain**
- **Resolved some problems on leetcode ([script-0](#))**
- **19th most active github user in Cameroon** - at 6th Mar 2022([link](#))

🌍 Activities/ LeaderShip

- Teaching the courses: - School Computer Club   Sep 2021 - Present
  - **"Introduction to AI and applications"**
    Taught about what AI is ? Types of AI, Types of Machine Learning, ideas behind them, common applications (health, education, entertainment) in Africa.
  - **"First steps into Machine Learning : Common Classifiers and Regressors"**
    Taught about some classifiers and regressor and its mathematical background.
    Implemented a LGBM Regressor (House Price) and KNN Classifier ([Prostate cancer diagnosis](#)) in python on Google Colab.
    Some talks about hyperparameters and fine tuning.

- **Actif Member of Google Developer Club Yaounde**   Apr 2021 - Present