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EXPERIENCE

Present October 2022	Data Scientist Laboratory Research Scientist, THE FRANCIS CRICK INSTITUTE, London <ul style="list-style-type: none">> Developing computational methods for detecting dementia type diseases in the brain.> Compared the structure of responses of artificial networks to that of biological vision networks.> Created dashboards for neural data exploration, descriptive analysis & data visualization.> Fitting distributions & machine learning models to neural data.> Traced and labelled cells using Labkit and built a machine learning model in StarDist. <div>PythonnVimGitJupyter sklearnmatplotlibemacsnumpyopencvscipyZsh</div>
July 2024 March 2024	Data Scientist Analyst , FREELANCE, Remote <ul style="list-style-type: none">> Data imputation for the price of (agricultural) commodities for different locations in Accra.> co-developed an economic market model to simulate a market resource allocation and determines pricing. <div>PythonnVimGitZshLua</div>
October 2022 December 2020	Data Scientist Principal Research Assistant, INSTITUTIONAL RESEARCH , Ghana <ul style="list-style-type: none">> Developed a model to infer the number of administrative staff for the university of Ghana.> Performed an attrition analysis which informed the upholding of student sports concession.> Served on a committee to assess the feasibility of implementing a document verification technology.> Improved the institute website, managed in Drupal. <div>PythonViGitPandasL^AT_EXBash</div>
December 2021 October 2020	ML/Data Engineer Freelance , REMOTE, Ghana <ul style="list-style-type: none">> Developed parsers to check for data consistency and integrity.> Built scalable and reusable ETL pipelines for ingesting large data sets from multiple APIs.> Developed a model for vehicle attribute detection including make, model, and year.> Developed routines for data visualizations of large image datasets using Matplotlib.> Built Extract - Transform - Load pipelines for ingesting weather & energy data from APIs.> Built explainable models for the forecast of Electrical Energy demand from weather data. <div>PythonPyTorchSQLAlchemyPytestAWS</div>
July 2019 May 2019	Machine Learning Engineer Machine learning , PI CAMPUS, Rome <ul style="list-style-type: none">> Worked on a real-time energy forecast and interpolation project (over 30M rows of data). Developed an RNN model with an annual savings benefit of 100 thousand euros.> Experimented with Sparse Gaussian models, Prophet, and some spectral methods. <div>TensorflowAWSGPflowPandasJupyter NotebookFaceBook ProphetPyCharm</div>
September 2018 September 2017	Scientific co-worker, FORSCHUNGSZENTRUM JÜLICH, Germany <i>SMARTSTART 2 Fellow pour COMPUTATIONAL NEUROSCIENCE</i> <ul style="list-style-type: none">> Co-developed an Argumentation Mining model, which won DL4NLP2018 award> Attempted developing a Generative Adversarial Network for Google Landmarks data.> Attempted using PredNet model to learn the latent representation of eye blinks to find an optimal strategy for blinking.> Explored the limits of state of the art Deep Convolutional Neural Networks including Inception, ResNet, VGG16, VGG19, by testing them on the task of Contour Integration. <div>KerasPyTorchPythonScikit-learnDockerLinux</div>

November 2015 February 2014	Data Scientist Associate Data Analyst , GHANA METEOROLOGICAL AGENCY, Ghana <i>with travel to Kenya and Tanzania</i> <ul style="list-style-type: none"> ➤ Translated proprietary Genstat code to R code. ➤ Developed a Markov Model for the prediction of amount and chance of rainfall. ➤ Developed a reference report for each synoptic station in Ghana; this report gives an overview of weather data at each station including missingness. ➤ Contributed to the development of ClimateObject, an R package specifically for the analysis of climate data in Africa; and the development of a Maproom for the Ghana Meteorological Agency sponsored by the International Research Institute for Climate and Society, Columbia University. <div> R Visual Basic GLM LaTeX Sweave </div>
February 2014 January 2014	Data Engineer Data Assistant , RANCARD SOLUTIONS LIMITED, Ghana temporary <ul style="list-style-type: none"> ➤ Developed a dictionary in Excel for a huge data labelling task - a database of three million rows. Completed task in 3 weeks. <div> Microsoft Excel </div>

EDUCATION

2012 – 2013	African Institute for Mathematical Sciences, Ghana , MSc. in Mathematical Sciences
2007 – 2011	University of Ghana , BA. in Mathematics with Economics

TRAINING & AWARDS

2021	National Information Agency , Certificate, Tableau
2021	Coursera , Certificate, Cloud Big Data and Machine Learning Fundamentals
2021	Coursera , Certificate, Troubleshooting and Debugging Techniques
2021	Coursera , Certificate, Jenkins : Automating your delivery pipeline
2021	Coursera , Certificate, Building Batch Data Pipelines on GCP
2021	Coursera , Certificate, Introduction to Javascript:The Basics
2021	Coursera , Certificate, Deploying SAP on Google Cloud
2020	Coursera , Certificate, Introduction to Git and Github
2019	Pi Campus, School of Artificial Intelligence , Certificate in Applied Machine Learning <i>Full Scholarship, selected one of top two-percent of applicants</i>
2017	Forschungszentrum Jülich, Germany <i>one year SMARTSTART Fellowship Award in Computational Neuroscience</i>
2013	African Institute for Mathematical Sciences (AIMS), Ghana , Master in Mathematical Science <i>One year full scholarship</i>
2005 – 2005	Best student for Physics, and Mathematics in high school after completing an accelerated (3-year) programme.

“ REFEREES

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 ☎ NA

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