THOMAS AGYEI NSIAH

Email: nsiahthomasagyei@gmail.com | Phone: +44 7442 800751

LinkedIn: linkedin.com/in/nsiah-thomas-agyei-3249561ab | Location: Leeds, UK

Profile

Dynamic Data Scientist with expertise in machine learning, data analysis, and model development. Proven ability to drive actionable insights and optimize business processes through advanced analytics. Adept at solving complex problems and delivering high-impact solutions in collaborative environments.

Skills

- *Machine Learning & AI*: Regression, Classification, Clustering, Neural Networks, NLP, ML
- *Programming Languages:* Python, JavaScript, R, MySQL, MS Server SQL
- *Data Analysis & Visualization:* Pandas, NumPy, SQL, Matplotlib, Seaborn, Tableau, Power BI, MS Office
- *Big Data Technologies:* Spark, Hadoop, AWS
- *Tools & Frameworks:* TensorFlow, Scikit-learn, Keras, Pytorch, ETL / TEL, APIs, Transformers, GPT, BERT, LLMs
- *Other:* Feature Engineering, Model Evaluation, Hyperparameter Tuning, Git, Github, Agile, SCRUM, Excel

Experience

Data Scientist - Ghana Education Service, Ghana   *Jan 2022 - Sept 2023*

- Implemented end-to-end machine learning pipelines, improving model accuracy by 30%.
- Optimized model performance through feature engineering and hyperparameter tuning, reducing prediction errors by 20%.
- Collaborated with software engineers to integrate machine learning models into production, enhancing system efficiency by 25%.

Data Scientist (Intern) - Ghana Education Service, Ghana   *Jan 2021 - Dec 2022*

- Developed machine learning models for predicting at-risk students, improving identification accuracy by 40%.
- Conducted exploratory data analysis on large datasets, uncovering insights that informed strategic decisions and improved educational outcomes.
- Collaborated with cross-functional teams to define business problems and design experiments, driving a 15% improvement in project success rates.

Teacher CER Education, Leeds, UK   *Feb 2023 - Present*

- Taught Computer Science to over 300 students, achieving a 95% student satisfaction rate.
- Developed practical lesson plans and laboratory activities, enhancing student engagement and learning outcomes.
- Utilized innovative teaching methods including 3D printing models and online resources, resulting in a 20% increase in student performance.

Education

MSc Artificial Intelligence and Data Science   *Sept 2023 - Aug 2024*

University of Hull, United Kingdom

Bachelor of Education in Information Technology   *Aug 2017 - Apr 2022*

University of Cape Coast, Ghana

Projects

- Price Prediction of Used Cars: Applied logistic regression and random forest algorithms, achieving 90% prediction accuracy.
- Customer Churn Prediction: Built and deployed a machine learning model that predicted customer churn with 85% accuracy, helping to retain key clients.
- Sentiment Analysis on Social Media: Conducted sentiment analysis using NLP techniques on social media data to gauge public opinion, achieving 88% accuracy.
- Predictive Maintenance for Manufacturing: Developed a time-series model, reducing downtime by 80% and increasing equipment reliability.
- Mental Health Prediction in Tech: Implemented models to predict mental health issues, achieving 85% accuracy.
- Sales Forecasting: Created a sales forecasting model using time series analysis that improved sales prediction accuracy by 20%.

Publications

Car Price Prediction using Supervised and Unsupervised Learning Models and Deep Learning

[ResearchGate](https://www.researchgate.net/publication/378126209_Car_Price_Prediction_using_Supervised_and_Unsupervised_Learning_Models_and_Deep_Learning)

Professional Memberships

- Microsoft AZURE AI Foundation
- Member, Black in AI
- Member, Royal Statistical Society, UK
- Member, AAAI (Association for the Advancement of Artificial Intelligence)
- Licensed Teacher, Ghana Teaching Council
- Member, International Society for Data Science and Analytics (ISDSA)

References

Available upon request