Maame Yaa Amanpene
GRADUATE ANALYST

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Education

MISSOURI UNIVERSITY OF SCIENCE & TECHNOLOGY   Rolla, MO

- *MS Geological Engineering, **GPA: 3.6 / 4.0***   Jan. 2016 – Dec. 2017
- *Graduate Certificate, Project Management, **GPA: 3.5 / 4.0***   Aug. 2016 - July 2017

KNUST (Ghana) - *BS Civil Engineering*   Aug. 2008 - June 2012

Selected Personal Projects

- ***Concrete Curing Analytics* (URL:** *https://github.com/ kyerewaa89/concrete_strength*): Developed simple regression and random forest models for predicting concrete strength based on concrete constituents and manufacturing practices, using DataRobot, with an R^2 value of 0.95 (RMSE = 3.56). Performed descriptive analytics and created visualizations to communicate results using Power BI, Tableau and PowerPoint.

- ***Forest Fires Analytics* (URL:** *https://github.com/ kyerewaa89/forest_fires*): Developed a random forest model for predicting the potential coverage area of wildfires, based on local environmental conditions, using DataRobot. This model is an improvement on a previous model from a published paper (Cortez and Morais, 2007), which uses the same dataset. This model significantly reduces the Root Mean Squared Error (RMSE) of the reported model from 64.7 to 23.96. Performed descriptive analytics and created visualizations to communicate results using Power BI, Tableau and PowerPoint.

Technical Skills

- ***Communication & Reporting:*** MS PowerPoint, MS Word, MS Outlook
- ***Visualization & Analytics*:** Tableau, Power BI, MS Excel, SPSS
- ***Data Wrangling & Storage*:** SQL (MySQL)
- ***Project Management:*** MS Project, Primavera
- ***Other skills*:** DataRobot, MS Visio, MS Dynamics

Work Experience

DINSTINCT ENGINEERING SOLUTIONS INC.   North Brunswick, New Jersey

*Engineering Analyst, Jan. 2018 – June 2018 (**6 months**)*

- Performed data wrangling on geotechnical and construction data. Conducted engineering analyses using gINT and MS Excel. Created visualizations to communicate analyses and recommendations using Tableau. Presented and explained technical recommendations to multi-disciplinary audiences. Reviewed and documented work progress.

UENR - GHANA   Sunyani, Ghana

*Engineering Analyst, Dec. 2012 – Nov. 2014 (**2 years**)*

- Conducted water supply, water quality and waste management surveys to collect environmental data. Performed data wrangling and environmental analyses. Created visualizations using SPSS and MS Excel. Prepared monthly PowerPoint presentations and reported project progress to stakeholders. Prepared progress reports and final project documentation.