Panashe Mutamba
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Portfolio: https://kmachine1.github.io/

I am in the early stages of my career in Data. Having achieved an Actuarial degree, and onwards from that I have manipulated, transformed and utilized varying datasets on different technologies. I am interested in furthering my knowledge and application pertaining to the many problems businesses face with their data architecture, pipelines or data quality. As well as deepening my knowledge with each project. I aspire to not only grow and develop but be an advocate for best practices and eventually mentor and take on a more senior role.

City, University of London – Bayes Business School **London, UK**
BSc Actuarial Science *2019*

- *BSc (Hons) Actuarial Science (**2:1**)*

Skills

Interpersonal

- Collaboration
- Presentation skills
- Teamwork
- Communication

Technical

- Technology, Cloud (AWS), and Unit-Testing
- Data Management
- Data Analytics & Visualisation (Python, Power BI, PostgreSQL, Excel)
- Version control, Gitlab or Github, coupled with Visual Studio

Experience
Tata Consultancy Services
Client: Department for Work and Pensions (DWP) **London, UK**
Data Engineer *Jan 2022 – Present*

Problem Statement: Defaulted payments for child maintenance were increasing overhead, in order to remedy this a Machine Learning model was constructed to predict potential defaulters before they default. Data pipelines were made to display the potential defaulters to the case workers.

- In my role working for our client DWP I collaborated closely with the Lead Data Engineer, Senior Data Engineer, Senior Data Scientist, Business Analyst and Developers to maintain and enhance the pipelines.
- The technologies used were Python, AWS and Gitlab.
- To ensure the raw data was captured accurately and quality data was outputted for the Machine Learning model I created data dictionaries for 7+ raw files and built validation processes for the pipelines on python ensuring consistency in the quality of the data.
- I integrated the validation process into the main pipeline infrastructure which involved automatically creating a folder of validated files then a metadata file, where data validation succeeded, files were located using the metadata file in the concurrent pipeline steps.
- Which meant that any inconsistencies in the raw data would be captured much early on and by the debugging statements placed. Allowing for smoother pipeline runs.
- Case workers had begun to use the pipelines through DWP's company interface and in their words, it had made the process of choosing priority cases to work on much easier. Which meant less people were defaulting than before.
- Developed 10 pages of documentation to support data pipeline architecture.

Blue Sky Fostering **Romsey, UK**
Data Entry Administrator *Jan 2021 – Jan 2022*

Problem Statement: There were numerous emails of confidential information regarding minors which needed to be manually entered into the company website database and thereafter each email had to be placed in their respective geographical location

- I collaborated with case workers in improving the data entry process.
- After understanding the process of entering data for the business I worked to automate the process, as there were entries with rules and patterns that could be caught by Python.
- This allowed me to run the program whereby the simple data entries from Outlook emails were inputted in the company website database. Then I could input manually the more complicated cases.
- meant case workers always had the most up-to-date information when viewing cases on the company database.
- Further on there were issues with pulling data with time constraints and the most meaningful visualisations to capture the patterns of the most recent month or the many locations
- I created a tool in Python which automated pulling Excel data from the company website and created an automated report which would be emailed to the necessary personnel.

Certifications

- [PCAP-31-03] PCAP – Certified Associate in Python Programming
- [PCEP-30-02] PCEP – Certified Entry-Level Python Programmer
- AWS Certified Cloud Practitioner
- AWS Certified Developer - Associate