CHARLOTTE SWAVOLA

9 Agnes Villas, Nottingham, UK   (+44)7445 020936   CGSwavola@gmail.com

https://www.linkedin.com/in/charlotte-swavola/   https://cswavola.github.io/

EXPERIENCE

Data Scientist   **Jan. 2019 - Present**

Capital One Financial Corporation, Nottingham, UK

- Implemented and managed behavioral risk models including impact analysis across business areas, data quality validation, and communication with CDO.
- Developed and maintained real-time data quality controls for business continuity including metric improvements, platform and language migration, and risk analysis.
- Integrated new data sources for decisioning including tool/package development for data wrangling, data validation for risk models and credit decisioning, and managing cross-functional teams to implement process improvements across business operations.

Photovoltaic Laboratory Coordinator   **Oct. 2016 – Sept. 2017**

Heraeus Photovoltaics, Conshohocken, PA, USA

- Managed KPI dashboards including collection and analysis of efficiency data to identify improvement targets
- Coordinated laboratory activities in a research environment including resource and facility management and process improvement
- Implemented continuous improvement using the 5S/Kaizen lean manufacturing principles
- Conducted SEM analysis of photovoltaic samples

Quality Control Supervisor   **Mar. 2015 – Oct. 2016**

Johnson Matthey ECT, Inc., Wayne, PA, USA

- Supervised multiple chemical and engineering testing laboratories to conduct production analysis of catalytic converters
- Developed a team of employees and manage documentation and testing databases

Process Development Technician   **Dec. 2013 – Mar. 2015**

Johnson Matthey ECT, Inc., Wayne, PA, USA

- Engineered coating methods for catalytic converter prototypes

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EDUCATION

Master of Information and Data Science   Projected Graduation **Mar. 2019**
      University of California, Berkeley

Bachelor of Arts, Chemistry   **May 2013**
      Temple University
        Director's Honor Roll; Temple Lacrosse, Division I, Atlantic 10 Conference

TECHNICAL SKILLS

- Experimental design, implementation, and statistical analysis for causality testing using randomization inference, linear regression, and binary logistic regression models
- Predictive modelling and forecasting through supervised/unsupervised machine learning using Scikit-learn, Pandas, and Tensorflow.
- Application of classification models including K-nearest neighbors, naive-Bayes, decision tree, random forest, and gradient boost models.
- Big data and cloud supported query and analysis including pipeline construction and data lake management
- Data visualization, dashboard development, and analysis presentation
- Natural language processing including POS tagging, sentiment spectrum analysis, and assembling deep learning algorithms
- Privacy framework classification for experimentation design and user policy impact analysis
- Data and analytics tools/languages: Python, R, SQL, SAS, Hadoop, Hive, Spark/Pyspark, Spark, PySpark, Scala, Tableau, JS/CSS/HTML, Google Analytics, Amazon Web Services
- Project management including risk analysis and asset management, team coordination using agile framework, stakeholder presentations, and project planning software
- Experience in scientific and academic writing
- Conversational Spanish