



1 in 4 people do not have access to electricity

*We are an equal employment opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, national origin, disability status, protected veteran status or any other characteristic protected by law.*

## **JOB DESCRIPTION: DATA SCIENCE AND ANALYTICS OFFICER**

**Job Location:** Nairobi, Kenya

**Reporting to:** Credit Risk and Strategy Director

### **Position Description**

The Data Science and Analytics Officer will be responsible for providing support to improve credit risk management and collections efficiency.

### **Person Specifications**

The ideal candidate is adept at using large data sets to find opportunities for product and process optimization and using models to test the effectiveness of different courses of action. He/She must have strong experience using a variety of data mining/data analysis methods, using a variety of data tools, building and implementing models, using/creating algorithms and creating/running simulations. He/She must have a proven ability to drive business results with their data-based insights. He/She must be comfortable working with a wide range of stakeholders and functional teams. The right candidate will have a passion for discovering solutions hidden in large data sets and working with stakeholders to improve business outcomes.

### **Roles and Responsibilities**

- Work with stakeholders throughout the organization to identify opportunities for leveraging company data to drive business solutions.
- Mine and analyze data from company databases to drive optimization and improvement of credit risk management and collections, credit product development, and business strategies.
- Assess the effectiveness and accuracy of new data sources and data gathering techniques.
- Develop custom data models and algorithms to apply to data sets.
- Use predictive modeling to increase and optimize customer experiences, revenue generation, ad targeting and other business outcomes.
- Develop company A/B testing framework and test model quality.
- Coordinate with different functional teams to implement models and monitor outcomes.
- Develop processes and tools to monitor and analyze model performance and data accuracy.

### **Desired Skills and Experience**

- 1-3 years of experience manipulating data sets and building statistical models, has a Bachelors in Statistics, Mathematics, Computer Science or another quantitative field.
- Knowledge and experience in statistical and data mining techniques: GLM/Regression, Random Forest, Boosting, Trees, text mining, social network analysis, etc.
- Experience querying databases and using statistical computer languages: R, Python, etc.



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- Experience creating and using advanced machine learning algorithms and statistics: regression, simulation, scenario analysis, modeling, clustering, decision trees, neural networks, etc.
- Strong problem solving skills with an emphasis on product development.
- Experience using statistical computer languages and databases (Python, R, Oracle, MySQL, etc.) to manipulate data and draw insights from large data sets.
- Experience working with and creating data architectures.
- Knowledge of a variety of machine learning techniques (clustering, decision tree learning, artificial neural networks, etc.) and their real-world advantages/drawbacks.
- Knowledge of advanced statistical techniques and concepts (regression, properties of distributions, statistical tests and proper usage, etc.) and experience with applications.
- Excellent written and verbal communication skills for coordinating across teams.
- A drive to learn and master new technologies and techniques.
- Fluency in English

### How to Apply

Candidates who meet the requirements should submit their CV and cover letter to: [hr.africa@dlight.com](mailto:hr.africa@dlight.com).

### About d.light

d.light is a for-profit social enterprise whose purpose is to create new freedoms for customers without access to reliable power so they can enjoy a brighter future. We design, manufacture and distribute solar light and power products throughout the developing world. By 2020, d.light had transformed the lives of over 100 million people.

