

# Rihad Variawa

<https://2series.github.io/>  
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## SKILLS

### PROGRAMMING

Python  
R  
Solidity  
C++  
JavaScript (D3.js), HTML, and CSS

### MACHINE LEARNING

Regression  
Support Vector Machines  
Naive Bayes  
K-Nearest Neighbors  
Decision Trees  
Cluster Analyses  
Natural Language Processing

### ANALYTICS

IPython Notebook  
RStudio  
SQL  
Spark and Hadoop  
Git and Github  
Microsoft Azure Machine Learning  
Matlab  
Weka  
Tableau  
Excel

## EDUCATION

### DATA SCIENCE BOOTCAMP

FLATIRON SCHOOL  
Jun 2017 | New York, NY

### PGDIP ACC.SCI

UNIVERSITY OF SOUTH AFRICA  
Oct 2014

### HONOURS, B.ACC.SCI

UNIVERSITY OF SOUTH AFRICA  
Oct 2011

### B.ACC.SCI

UNIVERSITY OF SOUTH AFRICA  
Oct 2008

## LINKS

Github:// [2series](https://2series)  
LinkedIn:// [rihadvariawa](https://rihadvariawa)  
Twitter:// [@2series\\_rv](https://@2series_rv)

## PROFESSIONAL EXPERIENCE

### ESOURCE ANALYTICS | DATA SCIENTIST

Jan 2017 – Present

- Built **machine learning models** using supervised learning algorithms to predict whether loan defaulters are fit for additional loans
- Led research team in analyzing investments in renewable energy and ag technologies, from conducting fieldwork to market research, engineering design & financial evaluation of potential projects
- Conducted an analysis by **comparing countries leading in solar and wind production** But, the most interesting visualization was Nuclear Energy production
- Researched **patterns in renewable energy generation** to derive insights explore questions using k-means clustering
- Scraped, cleaned, and assimilated product retail data as inputs to **retail revenue prediction model**
- Studied the relationship between average global temperature and several factors **affecting climate change** using regression analysis

### REAL ESTATE PORTFOLIO WEALTH ADVISORS | FINANCE MANAGER

Feb 2017 – May 2018 | South Africa

- Drove business development by writing grant proposals to international investors and delivering presentations to pitch to potential funders
  - **Financial Commerce Market Analyses**
    - \* Led quantitative analysis to develop value propositions for a multinational seeking to enter markets in several African states
    - \* Built financial models to assess market potential and expected cash flows for real estate investments
    - \* Authored market-sizing and forecasting section of a commercial report on characteristics, forecasts, and trends in FCM for several African markets
- Compiled the annual financial statements for the period ended 2018
- Assessed market risk factors that could adversely affect the assets and implemented processes to mitigate exposure to risks

### ENERGY | INDEPENDENT ANALYST

Dec 2016 – Jan 2017 | New York, NY

- Machine learning task to **predict the energy usage** score for any building type using supervised learning

### SIZWENTSALUBAGOBODO | TRAINEE ACCOUNTANT

Feb 2014 – Jan 2017 | South Africa

- Domain knowledge in financial service audits
- Executed statutory audits on Asset Fund Managers, Trusts, Property Management Co, Special Purpose Vehicles and Telecoms
- Performed a risk based approach to external audits of public and private clients in environments providing exposure to risk and compliance
- Reviewed and reported on financial statements by testing key processes, internal controls, risk analysis, mitigating factors and evaluated risk management activities from those charge with governance