

# RIHAD VARIAWA | Data Scientist

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## SKILLS

### DATA ANALYTICS

Applied statistics & probability  
Machine learning algorithms & processes  
Feature engineering & refinement  
Investigation of public data sources  
Systems for large-scale, automated data collection & analysis  
Application usage analysis  
Predictive analytics  
Tools for structured data storage & retrieval  
Data storage and analysis tools: e.g. SQL, Hadoop, Map Reduce & Spark  
Meaningful experience in analysing English language text based data sets  
Web Scraping  
Comfortable 'working virtually' with teammates & customers around the world  
Demonstrated success as a problem solver, result-oriented and self-starter

### LANGUAGES

Python with Numpy, Pandas, Sci-Kit Learn & Matplotlib  
R Programming  
Solidity  
C++  
JavaScript (D3.js), HTML & CSS

### SOFTWARE

Jupyter Notebook  
GitHub and GitKraken  
Caseware Audit  
Power BI  
MS Office Suite

### STATUTORY REGULATIONS

International Financial Reporting Standards (IFRS)  
International Auditing Standards (IAS)  
King IV Report on Corporate Governance  
Companies Act 71 of 2008

### FINANCE

Corporate Finance  
Business Strategies  
Operational Efficiency  
Scenario Analysis  
Forecasting  
Risk Management

### OPEN-SOURCE PROJECTS

#### Cryptocurrency Pricing Analysis Using Python

"Crypto Data Analysis" (as of January 2014)

#### Using Python To Analyse 60 Million US Police Stops

"Insights into important issues we face today, Racism"

#### Loan Application Prediction Challenge

"To Establish Whether A Loan Would Be Approved Or Not"

#### Time Series Analysis Using Python

"Helping Investors Make An Investment In A New Form Of Transportation"

## EDUCATION

Postgraduate Diploma Accounting Science (CTA) | 2014  
BCompt (Hons) Accounting Science | 2011  
BCompt Accounting Science | 2008

## LINKS

[www.linkedin.com/in/rihad-variawa-7422017b](https://www.linkedin.com/in/rihad-variawa-7422017b)  
<https://2series.github.io>

## EXPERIENCE

### DATA SCIENTIST, eSource

Jan 2017 – Present

- Author of a renewable energy white paper
- Performed analysis related to trends in emerging technologies, forecasted performance & cash flow needs for existing and future Investments for renewable energy
- Developed models to analyse fund investment performance, refinance/swap/currency analysis and buyout/venture/secondary analysis

### FINANCIAL MANAGER, Real Estate Portfolio

Feb 2017 – May 2018

- Through M&A created an asset class portfolio of housing and apartment developments
- Delivered timely & accurate quarterly financial and management accounts
- Evaluated risk factors that could adversely affect the assets & implemented procedures to mitigate exposure to risks and disclose risk information to relevant internal & external stakeholders
- Formulated and maintained financial models for decision-making purposes
- Managed & optimise processes for data intake and validation as well as modeling, visualisation and communicated deliverables
- Built hypothetical, multi-year financial models
- Tracked & determined financial status by analyzing actual results with forecasts and budgets
- Accelerated corporate compliance, operational risks & control processes by monitoring financial obligations with banks and developing credit facilities
- Devised relevant internal controls to ensure the integrity of operations, financial and accounting practices
- Managed banking relationships and monitored the portfolio's cash flow liquidity
- Conducted impairment tests on CGUs and potential CGUs in accordance with IFRS requirements

### ASSOCIATE ACCOUNTANT, Audit Firm

Feb 2014 – Jan 2017

- Financial service audits of: *Asset Fund Managers, Trusts, Property Management Co, SPVs & telecommunication* incorporating financial analysis, consolidations & reporting
- Externally audited (*private & public*) clients in environments providing exposure to risk and compliance management & 2 due diligence reports contributed during this period
- Examined full lifecycle activities including requirement analysis, internal control design & reporting capabilities
- Monitored and reported by understanding key processes, internal controls, risk identification, risk analysis, responding to risks identified, sound governance & assessed adequate information, communication and monitoring of risk management activities by those charged with governance
- Explored existing data and produce recommendations for improvement policies and processes where necessary