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CAREER OBJECTIVE

Data analyst with a solid background in C, C++, R and Python programming. I am on the lookout for a challenging opportunity involving application of Data Science and Machine Learning skills.

SKILLS

- **Languages:** Python, R, C, C++, Matlab/Octave, PHP, HTML5, CSS3, Julia
- **Databases**: PostgreSQL, Hadoop/HDFS, SQL Server, Non-SQL – MongoDB
- **Web frameworks**: Django, Flask, Streamlit, Yii2
- **ML frameworks**: Tensorflow, Keras, SkLearn, PyTorch, Seaborn, PySpark, NLTK, OpenCV, Tableau
- **ML concepts**: Regressions, SVM, Clustering, Time Series, NLP, CV, CNN, RNN, LSTM, AEs
- **Cloud**: Amazon Web Services, Google, Azure, IBM Watson
- **Other software**: Advanced Excel, Eviews, SPSS, SAS and Stata

WORK EXPERIENCE

Trounceflow: Data Analyst , June 2020 – Present
- Data Scraping and parsing datasets
- Analyzing data from EM markets and funds
- Reporting and preparing Country and daily Emails

The AI Institute: Bootcamp in Data Science & AI , May 2020 – Aug 2020
- Practiced Data Science & AI within a 480-hours intensive & practical bootcamp:
- Tasks involving application of Supervised, Unsupervised Learning & Reinforcement Learning
- Prediction and classification involving deep learning models
- Image Processing, Computer Vision, Natural Language Processing (NLP) projects
- Built a credit score model with ML techniques; a customer segmentation model with k-Means clustering; a face-detection model; an object detection model; a spam/non-spam classification model

Bank of India: Management Trainee, Jan 2018 - Dec 2019
- Shadowed line and staff functions in the operations department
- Assisted in the management of company policies and practices within every phase of the business
- Assisted in the analysis of interrelated departmental functions to ensure optimization of workflow.
- Oversaw the day-to-day operations at the bank and ensuring timely submission of compliance reports

Strathmore University, @iLab Africa: Research Assistant, Mar 2017 – June 2017
-Restructuring and filtering county and sub-county data from county reports in pdf to xls formats
-Working paper on crime rates across the counties and if any correlation with poverty levels

Strathmore Business School : Research Assistant, Nov 2015 - May 2016
-Collecting raw data for the analysis (company annual reports)
-Summarizing and filtering data from the annual reports into xls files
-Giving reporting scores to companies' qualitative information (i.e. non-financial)
-Determined the possibility for an integrated reporting framework by Kenyan public companies

Information Professionals Africa Consultancy (IPA): Asst Team Leader, Mar 2015 – Oct 2015
-Acquisition of data: interviews; administering questionnaires; discussions/workshops
-Managing entries of information collected and preparation of reports
-Came up with the ICT roadmap for each of the 6 counties (in the North Rift).

National Drought Management Authority: Finance Intern, Jan 2014 – Mar 2014
-Writing cheques, Managing entries to cashbook, payment voucher & vote book
-Data entry.
-Learnt overall workings of the corporate industry

Thomas Barnardos Children's Home: Volunteer, 2012 - 2013
- Doing laundry; Cooking and taking care of the kids in the nursery

EDUCATIONAL BACKGROUND

-Profession

WorldQuant University: Scientific Computing and Python for Finance, Apr 2020-June 2020
- Rigorous programming concepts for Python

CFA Institute: Level 2 Candidate, Jul 2020 – Jul 2021
- Rigorous financial concepts

-Academic

IUBH: MSc Artificial Intelligence, Oct 2020 – Dec 2021
- Advanced mathematics and AI
- Corporate Finance
- Research on autonomous vehicles

Strathmore University: MSc Mathematical Finance, Jan 2017 – Aug 2020
-Working paper on "Estimation of a Covariance Matrix Using an Innovative Estimator (QML)" in Journal of Economics and International Finance.
-Working paper on "Random Walk Hypotheses tests-Case of Kenyan Stock Market"
-Working paper on "Variance Bound and Hansen-Jagannathan Lower Bound tests-Kenyan Market"
-A Research paper on "Application of Ornstein-Uhlenbeck-with-jumps Process in Commodity Pricing".
-A working paper on "An Adaptive Finite Differences Approach in Option Pricing"

WorldQuant University: MSc Financial Engineering, Apr 2018-June 2020
-Financial markets, Econometrics, Discrete-time Stochastic Processes, Continuous-time Stochastic Processes, Computational Finance, Portfolio Theory and Asset Pricing, & Machine Learning in Finance
-Working paper on weather shocks on agricultural commodities prices using Python language and Time series tools (applying machine learning)
-Graduated with Distinction

Strathmore University: BBS Financial Economics, Jan 2011 – Jun 2015
-Did both a discounted cash flow and comparative valuation of a startup based in Kenya (1809)
-Published a paper on Futures Trading and Spot Price volatility and presented in conference

HOBBIES

-Coding, Conducting economic/financial research studies, Traveling, Participating in Community Events, Reading business magazines, history books, and business journals & documentaries.