KHUSHAL JAIN

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PROFESSIONAL SUMMARY

Portfolio risk developer bringing in 3 years of trading and portfolio analytic software development experience. Advanced knowledge in factor model and Machine Learning. Business owner offering outstanding presentation, communication and effective management skills.

TECHNICAL SKILLS

Bug Tracking Tools:	BuGzilla, jira
GUI Framework:	PyJamas, GnomePython, gui2py, PyFltk, PyForms, PyGtk, PySide, TkInter
Tools and Software:	Pycharm, Sublime Text, Eclipse,NetBeans JIRA, Microsoft Visual
Big Data Ecosystems:	HDFS, MapReduce, PIG HBase, Zookeeper
Programming Languages:	Python, C, Java, R Programming
Framework:	Django, Flask
Algorithms:	Linear Regression, Logistic Regression, Decision Tree, SVM, Naive Bayes, KNN
Web Technologies:	JavaScript, HTML5/CSS3, PHP
Databases:	MySQL, Elasticsearch, PostgreSQL
Technologies, Frameworks & Libraries:	AWS (EC2, S3, ECS, SageMaker, Elasticsearch Service, RDS), Machine Learning, Docker, Kibana, Flutter, Django, Restless-Django, Node.js, Git, GitHub, Flask, Flask-RESTful, New Relic, Mixpanel
IDE:	Eclipse, NetBeans, Visual Studio, gedit.

WORK EXPERIENCE

Financial Software Engineer | Thar Share Brokers Private Limited Jaipur, India (May 2019 to Current)

- Modified existing infrastructure of Bloomberg PORT risk engine to support Barclay POINT models and features using C++ and Java
- Designed, implemented and trained 3 new regression models for risk analysis using C++ and Python
- Initiated and led projects to build new analytic software for sell-side clients
- Created GUI for a new product using JavaScript
- Worked with project sponsors to define project specs, timeline and milestones
- Demoed software products to potential clients from Asia
- Visited 4 clients and evaluated their work-flow

Junior Software Intern | Thar Share Brokers Private Limited Jaipur, India. (April 2018 to May 2019)

- Built 57 command handlers using C++
- Automated firmware building and releasing process using Python
- Investigated reliability concerns and designed testing plan for Macbook Pro
- Designed and implemented "virtual spring" system using C++ for energy harvesting system
- Optimized energy harvesting efficiency by turning parameters in the system

PROJECTS

Nifty Technical-analysis | Pandas, Numpy, Nsepy, BeautifulSoup, Matplotlib

- Gathered and cleaned market data from Yahoo using Python
- Implemented 3 technical analysis models to generate trading signal using python
- Wrote Python scripts to back-test models and tune parameters periodically

Quantitative-FRM---Market-Risk-App | R, quantmod, dplyr, DT, GA, Shiny

- associated with different stocks (Indian NSE stocks currently).
- All the calculations accurate to the best of my knowledge on the subject and programming nuances associated with R.
- calculations associated with statistical estimates and VaR/cVaR using base R functions.

pynse | Python, Lua, Shell

- Library to extract realtime and historical data from NSE website.
- EOD data like bhavcopy and option chain are also saved to the directory.
- First run will create directories for storing the data and will download the index symbols.

Stockify | JavaScript, Html

- A full-stack web application for stock watch lists to get feedback on our favorite stocks and you'll get a list of nice brief quotes which has back-end with the Node.js, Express and front-end with the React, deployed it on the cloud Platform-as-a-Service Heroku with DaaS mLab.

BankNIFTY-Golden-Ratio-Strategy | Python - Bokeh

- Scrip = BANK NIFTY Futures
- Golden Number = ((Previous Day High - Previous Day Low) + Opening Range of Today's First 10 minutes))*61.8%
- Use this strategy to automate in various brokers of NSE Exchange - Zerodha, Upstox, Alice Blue, SAS Online, 5paisa, IIFL, Interactive Brokers, Fyers using the algo trading APIs.

Nse-data-collection | python -bokeh

- Collect nse option chain data using python script.
- Scrape everyday data from NSE Servers and append them into the excel file. The data can now be worked upon easily by a common user.
- generating a machine learning classification model, which gives the likelihood of incoming security events with different security events' level.
- The model will be trained with existing labeled data from the current rule-based system and will be deployed on the AWS Sage Maker for the production use.

CERTIFICATIONS

- Hadoop 101 A course on cognitiveclass.ai Powered by IBM Developer
- Machine Learning with Python on cognitiveclass.ai Powered by IBM Developer
- The Fundamental of Digital Marketing powered by Google Digital Garage
- Google Web Designer Basics Powered by Google
- Creative Certification Powered by Google
- Waze Ads Fundamentals powered Bt Waze Google
- Creative Certification Powered by Google
- Advanced JavaScript Powered by Udemy
- Cs50's Web Programming with Python and JavaScript Powered by Cambridge, Massachusetts
- Certificate of Completion Learning Python by LinkedIn Learning