

## KHUSHAL JAIN

Jaipur(Raj) India  
+91-9982795020

Portfolio: [Khushal-jain](#)  
GitHub: [Khushal-jain](#)

LinkedIn: [khushaljain](#)  
Email: [khushaljain023@gmail.com](mailto:khushaljain023@gmail.com)

### 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

Programming Languages: Python, JavaScript, Dart, HTML5/CSS3, C, Java, Maven, Kafka  
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 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 Udemey
- Cs50's Web Programming with Python and JavaScript Powered by Cambridge, Massachusetts
- [Certificate of Completion Learning Python by LinkedIn Learning](#)