



ANKIT AGARWAL

Financial Modeling ~ Data scientist ~ Economist


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SUMMARY

Experienced professional with 3.5 years of experience in financial risk modeling, emphasizing data analysis, visualization, and machine learning. Proficient in web scraping, web development, and Github, enhancing insight into upstream and downstream dependencies.

SKILLS

Languages: SQL, Python, HTML, CSS, RStudio, PySpark

Platform: Spark, Tableau, Flask, Alteryx, Bloomberg

Modelling: ANN, KMeans, SVM, PCA, GLM, Ensembling

Academics: Statistics, Time series, Vector Econometrics

PROJECTS

Feature Engineering	Credit Risk Modelling Probability of default of customers was calculated using their bank data. Weight of Evidence of features was used to create new features by coarse classification. Logistic regression was used to train the model.	Github Link
Web Development	Blogging Website Developed a Python-based blog website using Flask, HTML/CSS, and SQLite. Admin capabilities include posting, editing, and deleting blogs. External users can register to view blogs, and post comments. Implemented secure storage of blogs/user data in a local SQL database with hashed passwords.	Github Link
Tableau Dashboard	Dashboard for sales and profit of a company Created a Tableau dashboard showcasing Key performance indicators of a retail business. The dashboard has dynamic filters that allow the user to choose to customize the dashboard.	Tableau Link
Web Scrapping	Data entry automation Created a web scraper using Beautiful Soup to extract relevant information such as Price, address, and link, from a flat listing website. This data is then entered into an Excel sheet using Selenium web driver.	Github Link
Financial modelling	Ranking of Indian Mutual fund houses Developed a gold-winning analytical framework to rank Mutual Fund Houses. Applied Vector Auto Regression (VAR) for quantifying responsiveness of the fund houses against macroeconomic shocks.	Drive Link

EXPERIENCE

Nov/2022 – Current	Associate, Treasury Risk Management • Leveraged Hadoop database via Tableau, accessed Nomura's internal database using SQL , and Bloomberg database (both directly and through the Excel add-in) to extract data. • Employed Tableau for in-depth data analysis, assessing model performance at an aggregate level. Conducted stress testing on the Treasury's bond portfolio using Nomura's market system Totoro. • Developed a graphical user interface (GUI) software enabling users to effortlessly create reports. The interface offers customizable options, including automatic section completion with predefined statements, or reuse of previously employed statements, or the ability to craft new statements.	Nomura
Jul/2020 – Nov/2022	Liquidity Risk Management • Assessed the relevance of assumptions and their alignment with the Credit Suisse portfolio. • On the quantitative front, conducted rigorous testing for regression models , ensuring normality , independence , and homoscedasticity of residuals, as well as inspecting multicollinearity among independent variables and model linearity. • Employed RStudio to filter a credit risk dataset comprising over 1.6 million rows & 130 columns. The refined dataset was used in evaluating the Probability of Default model for the sovereign client's portfolio.	Credit Suisse
May/2018 – Jul/2018	Data scientist • Utilized feature engineering techniques to extract novel attributes from the available SMS data and a/c statements. These features were used to develop the Probability of default model. • Developed an NLP model designed to parse and categorize bank statements. This approach involved employing a Artificial Neural Network architecture with a softmax activation function in the output layer to effectively classify bank statements into categories such as monthly transactions, credit/debit entries, cheque/EMI bounces, deposits, and more.	Ziploan

EDUCATION

Jun/2015 – Jun/2020	Integrated Msc (BSc + MSc) in Economics GPA: 8.40; Minor in Mathematics in computing ; JEE Advance AIR-3600	IIT Kharagpur
Jun/2022	Chartered Financial Risk Management Excellent percentile in all risk sections (including Credit Risk and Market Risk) in both part-I and part-II	GARP

ACTIVITIES

Lawn Tennis Water Polo-Gold Medal Data analytics - team Captain Mentor - Student welfare