

PIYUSH SEN

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EDUCATION

University of Illinois at Urbana-Champaign

Aug 2024 - Dec 2025

M.S. in Financial Engineering

- Relevant Coursework: Machine learning in finance, Financial computing, Statistical methods in finance

Xavier Institute of Management, Bhubaneswar, India

Jun 2013 - Mar 2015

MBA, Finance

St. Stephen's College, Delhi, India

Jun 2006 - Apr 2009

B.Sc. (Hons.), Physics

SKILLS

Programming/database: Python, C++, R, SQL, Gurobi, Bloomberg, CapitalIQ, Factset, Microsoft Excel

Functional: Quantitative Finance, Quantitative modeling, portfolio management, valuing traded equities, quantitative finance, financial markets, derivatives pricing, business strategy, bridging analysis, asset pricing,

Certifications: Cleared [CFA Level 1](#), [Registered Valuer in Securities and Financial Assets \(IBBI\)](#), Complete Linear Algebra: theory and implementation in code (Udemy), R Programming (Coursera)

Coursework: Valuation, Risk management, Probability theory, Asset liability management, Applied Mathematics

People: Efficient problem solving, adaptability, client communication, team management, independent research

PROJECTS

Quant Finance project, [Option pricing using Monte Carlo simulation](#)

Jun 2024

- Used Geometric Brownian Motion to simulate stock prices and value European options
- Used Monte Carlo & Quantlib library to value American options and used antithetic variates to improve variance

World Quant University, Applied Data Science Lab

Apr 2024 - Present

- Organized and imported data using Python data structures, data wrangling using pandas library, created data visualizations, and examined correlation between Mexico house prices and property size/location
- Created a machine learning model using scikit-learn, build a data pipeline for imputing and encoding features, and improved model performance by reducing overfitting

PROFESSIONAL EXPERIENCE

Acuity Knowledge Partners (formerly known as Moody's Analytics)

Gurugram, India

Delivery Manager, Private Equity

Oct 2021 - Dec 2023

- Contributed to comprehensive portfolio monitoring and investment research for a \$100M portfolio of investee companies for corporate accounts, including financial modeling, trading trends and fundamental valuation
- Headed project related to analysis of the liquidity discount of private companies using the Black-Scholes model, and deriving market multiples for listed companies using linear regression on key financial variables

Samaira Investment Advisors ('Mylen India Growth Fund')

Delhi, India

Analyst, Public Equity

Apr 2018 - Jun 2021

- Managed a \$25M equity portfolio in the Indian secondary markets (banks and technology stocks), doing quantitative analysis of current markets and generate investment strategies to generate returns
- Spearheaded a hedging initiative for an equity portfolio using put options, developing a strategic hedging plan to limit portfolio risk

ICRA Ltd (a Moody's Investor Services company)

Gurugram, India

Analyst

May 2015 - Oct 2017

- Built financial models to quantify the credit risk of corporates (debt of \$2M-\$350M) in residential and commercial mortgage sectors and provide a recommendation for a suitable credit rating
- Advised on key credit risks to the senior management and mitigating company specific risk through peer benchmarking and comparison with credit rating matrix