



Shaurya Baveja, CFA

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Summary

CFA Charterholder and **IIT Delhi** graduate with proven success in **AI product development**, financial analytics, and enterprise-scale fraud detection. Experienced in leading cross-functional teams to design and deploy ML solutions on **cloud platforms**. Skilled in **investment strategy** and **portfolio optimization**, delivering **6% excess returns** on **₹1000 Cr AUM**, and in applying core finance expertise across valuation, risk management, and corporate finance. Adept at translating complex model outputs into actionable insights, driving **product adoption**, and shaping **data-driven** decision making.

Professional Experience

Senior Data Scientist (AVP) | TATA AIG | Mumbai

Optimization of Passive Equity Investment Allocation

- Led a project to replace the old market agnostic fund allocation by automating investment allocation across 4 ETFs on **₹1000 Cr AUM** delivering **6% excess returns**.
- Built a market timing framework that overinvested in undervalued indices and reduced exposure in overvalued ones using **Monte Carlo simulation** and valuation signals from **PE** and **PB ratio** deviations.
- Translated model outputs into actionable portfolio strategies for investment team, enhancing transparency in allocation decisions and strengthening investment discipline.
- Successfully presented **complex model outputs** to **MD** and senior management by simplifying technical details into clear business insights that influenced strategic decision making.

Motor OD Fraud Detection

- Led end to end development of an AI fraud scoring system for motor claims that **increased** fraud detection by **50x** thereby preventing large scale fraudulent payouts and creating strong deterrence.
- Established a real-time, claim severity-based workflow that enabled **zero-touch processing** for low-risk claims, significantly reducing turnaround time (TAT) and enhancing operational efficiency.
- Directed deployment of ML model and rule engine using **AWS stack** (Lambda, SageMaker, DynamoDB, API Gateway) reducing model failure rate from **3.5%** to under **1%** and enabling **real time integration** into claims workflows.
- Identified crucial key performance indicators (KPIs) and built a comprehensive dashboard enhanced with **LLM powered** insights for continuous performance monitoring enabling tighter controls and iterative improvements

Data Scientist | TATA AIG | Mumbai

Health Enterprise Fraud Detection

- Built an AI based fraud detection system combining graph neural networks and autoencoder based anomaly detection that flagged high risk entities with **82% success rate** resulting in **₹25 Cr fraud savings**.
- Established a quarterly review process powered by model insights enabling timely interventions and securing additional **recurrent annual savings of ₹12 Cr**.

Motor Claim Volume Forecasting

- Engineered an advanced DeepAR time series model to forecast claim volumes across 3 motor products and 8 zones, achieving high-precision results with a Mean Absolute Percentage Error (MAPE) of under **5%** in key regions.
- Translated model forecasts into actionable insights enabling better resource allocation strategic planning and improved claim handling efficiency.

Health Agent Profiler

- Developed an **AI powered recruitment profiler** to support strategic hiring decisions by designing an ML based prototype on AWS that streamlined evaluation of prospective agents.
- Drove adoption by collaborating with IT and Design teams to embed the solution within enterprise platforms improving recruiter efficiency and generating **₹2.4 Cr incremental revenue**.

Education

MBA (PGPX) – Indian Institute of Management, Ahmedabad | India

Individual Research Project: ‘Dynamic asset allocation across diverse asset classes’, ‘Finance and Investments’

Bachelor of Technology – Indian Institute of Technology Delhi | Delhi

Accomplishments

- Best Performer Award**; Recognized by MD for AI/ML initiatives preventing ₹25 Cr+ fraud and optimizing ₹1000 Cr in Investments.
- CFA**: Demonstrated advanced expertise in investment analysis, equity and fixed income valuation, corporate finance, derivatives, portfolio management and risk analysis.
- Bronze Medal in Swimming**, 3m Men Springboard, Under-14, **Madhya Pradesh State Championship** – State Level

Certifications

CFA Charterholder - Chartered Financial Analyst Institute | USA

Extra-Curriculars

- Elected **IIMA Speaker Series** Head, managing logistics, planning, and coordination for high-profile speaker events.
- **Coordinator, Rendezvous IIT Delhi** ,2019 - Led a 3-tier team of 20+ to manage prize distribution of worth 14 Lacs for 100+ events in North India's largest Cultural Fest
- **Gold Medal** in Men's **Badminton**, Western Command Championship
- **Gold Medal** in **Chess** Championship,3rd District Chess Championship organized by Panchkula Chess Association
- Gold Medal in Swimming, C.B.S.E West Zone Championship organised by Haryana Swimming Association, Panchkula