Ishan Anand

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Work Experience

Career break / Technical consulting 2021–Present

- *Uptrain AI, YC W23*: Tooling to monitor ML models' performance. Wrote the open source library and managed deployments for early customers.
- *Silverleaf Capital*: Wrote low latency code for cross exchange commodities arbitrage - persist market feeds, place exchange orders, track risk and deployment of high turnover strategies.

Silverleaf Services, Mumbai 2018–2020

Software/Data engineer

- Worked with external clients on their data stack, primarily a K-12 edtech company.
- *Adaptive learning API*: Implemented a question recommendation system to guide student activity as they practiced exercises on the platform. Trained collaborative filtering models on prior student interactions, wrote data pipelines, set up A/B tests over ML models and suggestion heuristics. The system served >1mm requests a day and twice led to double digit jumps in student learning metrics and platform retention.
- *Doubts over Chat*: Set up a search backend and small web tools to help match student questions (text/image) to existing content base with tutors as fallback. Served 100k requests per day on average using a combination of OCR APIs, Elasticsearch filters and sentence embeddings while iterating with Learning to rank models. Significantly reduced tutor usage and session durations, while improving tutor ratings.
- *Sales analytics*: Worked with the business team on improving revenue from homesales agents. Analyzed performances through the conversion funnel, retention among agent cohorts and impact of pricing/incentive changes.

JP Morgan & Chase, Mumbai 2017–2018

Analyst, Quantitative Research - Equity Derivatives group

- *Pricing models*: Extended an existing pricer to accommodate a bespoke equity-rate hybrid payoff.

Goldman Sachs, Bangalore 2015–2017

Senior Analyst, Derivatives Analysis group

- *Pricing models*: Analyzed and validated models used by the Securities division for credit derivatives (risky bonds, default swaps, correlation products).
- *Regulatory*: Computed and reported the price impact of model limitations for the credit derivatives portfolio in usual and stressed scenarios. This is a component of the group's periodic submission to the Fed.
- *Market risk*: Vetted models used to generate and apply shocks to credit risk factors for daily VaR computation. Carried out backtesting, statistical tests and set up alternate models to benchmark impact.

Education

Indian Institute of Technology, Mumbai **Mumbai, India**

Electrical Engineering with Hons., B.Tech 8.74 GPA 2011-2015

Research: Devising controllability metrics for large networks. Didn't finish with substantial output.

Coursework: Systems and Control eng (Minor, 9.8 GPA), Linear Algebra, Network flow models, Filtering theory

Programming toolset

Languages	Primarily Python. Can write Go/Javascript with a manual. Wrote latency-sensitive code in Dlang/C. I'd love to be a polyglot.
Databases	Postgres for large homogenous data, Elasticsearch for documents. Stick to Sqlite/DuckDb when I can and use Redis if we need a caching layer.
Deployment	Python web API libraries, Docker, Terraform and regular AWS tooling.