ADITYA SHETTY

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SUMMARY

Quantitative model developer with industrial and academic experience in building analytical and statistical models, from conception to deployment.

EDUCATION

Simon Business School, University of Rochester *Expected May 2022*
Ph.D. in Operations Management (*Pursuing*)

Birla Institute of Technology and Science, India *2011*
B.E. Computer Science

INDUSTRY EXPERIENCE

Bravo Lucy
Quantitative Model Developer *Hyderabad, IN*

- Created a model of penalty shootouts that evaluates the impact of alternative ordering of shots, using real data from traditional ordering. This work was recognized by FIFA as an input in its decision to experiment with alternative shootout orders.
- Designed and implemented models for real time predictions of soccer matches and tournaments. The models were a combination of non stationary Markov Chains, ranking engines and simulators.

Snapdeal
Lead Engineer, Multimedia Research Group *Bengaluru, IN*

- Developed a "visual" search engine (search by color/pattern) for a product catalog. This was specially useful for fashion goods where customers have strong preferences over colors and patterns but the large number of SKU's make it labor intensive to track meta data for such products.
- Built a platform to store, retrieve and run analytics on user generated content. The main challenge here was to ensure scalability of the system, requiring the use of a distributed database (Cassandra) and caching layer (Aerospike).

TECHNICAL KNOWLEDGE

Programming Languages	Python, Java, R, C/C++
Tools	Arena, Gurobi, MySQL, Cassandra, Elasticsearch, Aerospike, Git
Development Processes	Agile software development, Test Driven Development

PEER REVIEWED PUBLICATIONS

- "Ordering sequential competitions to reduce order relevance: Soccer penalty shootouts", with Nils Rudi and Marcelo Olivares (*Published* in Plos one, 15(12), e0243786 , [Link]).
- "On designing a socially optimal expedited service and its impact on individual welfare", with Ricky Roet-Green (*Accepted* at Manufacturing & Service Operations Management, [Link])
- "Intra-day dynamic rescheduling under patient no-shows", with Harry Groenevelt and Vera Tilson (*Accepted* at Hawaii International Conference on System Sciences, [Link])