ROHAN BAPAT

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EDUCATION

University of Virginia, Data Science Institute	**Charlottesville, US**
MS in Data Science	**2017 – 2018**

Cumulative GPA: **3.8 /4.0**
Related Courses: Data Mining, Data Visualization, Machine Learning, Computer Vision

University of Pune	**Pune, India**
Bachelor of Engineering (Electronics and Telecommunications)	**2009 – 2013**

Cumulative GPA: **63%**

WORK EXPERIENCE

Coupa Software	**August 2018 – Present**

*Engagement Manager – Supply Chain Design & Planning (*Munich, Germany)
- Leading the development of OptiDx (https://www.optidx.org/) – a web-based open access tool to conduct Diagnostic Network Optimization (DNO) and route optimization analysis. OptiDx has facilitated network analysis in over **20** low- and middle- income countries.
- Executed Diagnostic Network Optimization (DNO) projects for Cameroon, Ethiopia, Malawi, Lesotho, Uganda and Zimbabwe to optimize sample referral and testing networks for TB, HIV, HPV etc. with average annual testing volumes in excess of **1.5 million** and average annual network costs (operational, testing, transportation) above **$20 million.**
- Route optimization analysis for extended immunization outreach product (Indigo cooler) in remote areas in Nigeria and DRC reaching **30,000+** zero-dose children. Analysis demonstrated **30%** increase in coverage compared to existing delivery mechanisms

Data Scientist (Chicago, US)
- Deployed a supply chain system design tool for analysis of in-country supply chains (storage & distribution) for UNICEF Supply Division's portfolio of immunization products
  - Developed scenario building and analysis capabilities for generating optimal routes, modifying warehouse storage capacities, and introducing new vaccines.
- *Contingency Planning* - Identified sourcing, capacity and trade-flow risks for the global supply chain of a leading quick service restaurant (QSR) across **3** product categories measuring more than **1.2 million tons** in annual demand

Graduate Student, **University of Virginia**	**July 2017 – May 2018**

- **Capstone Project** - *Network traffic analytics for cyber-security* - Detecting malicious network traffic using supervised learning techniques like Logistic Regression, Support Vector Machines (SVM) and Random Forest
- [Published research](#) at IEEE International Joint Conference on Neural Network, 2018

CERTIFICATIONS AND PRO BONO EXPERIENCE

- Certified **LLamasoft Supply Chain Design** – Level 1
- **DataKind** (a global non-profit pioneering data science for social good)
  Volunteer for DataKind initiatives - data.org Inclusive Growth & Recovery Challenge and Google AI Impact Challenge
- **IndiaSpend** (a non-profit data journalism initiative)   **May – July 2016**
  Explored applications of data science for better governance, and authored report on water scarcity in rural India titled 'The Great Indian Water Walkathon' which was featured in Business Standard, News Laundry among others