

Shivam Verma

Contact

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Education

Master of Data Science 2019-20

University of British Columbia
Vancouver, BC, Canada

B.Tech, Textile Eng. 2011-15

Indian Institute of Technology
New Delhi, India
CGPA: 7.955/10

Collaborative Projects

[Vancouver Crime Tracker](#),
[Shopper's Purchase Intention](#)
Visualization Library ([Python](#), [R](#))

MDS Capstone Project

- Creating a data pipeline connecting scientific research with precision agriculture.
- We are using FAIR's Detectron2 on plant images to quantify yield along with sensor data to compare different recipes.

Key Skills

Statistical Analysis, Machine Learning, Operations Research, Strategy, Business Analytics, Revenue Management

Tools

R, Python, Git, SQL, Dash, Markdown, H2O, Excel, Powerpoint

Profile

- 4+ years of Data Science experience with expertise in building data-driven solutions that are fast, scalable, robust & generalizable.
- Strong ability to extract and triangulate insights from data by tearing the constructs of a problem to grasp the fundamentals.
- Effective communicator & efficient problem solver that articulates his thoughts and opinions concisely to formulate effective solutions.

Experience

Assistant Manager • Revenue Planning & Analysis (Commercial) • IndiGo Airlines

Apr'19 to Jul'19

- Incorporated pricing changes in the demand forecast using price elasticity of demand & enabled training on double the historical data to enhance inventory allocation.
- Reduced the runtime of the forecasting method by 50% post the enhancements.

Senior Executive • Revenue Planning & Analysis (Commercial) • IndiGo Airlines

Apr'18 to Mar'19

- *Fare-Restructuring using Price Elasticity of Demand & Shortest Path Algorithm*
 - Restructured the fares to remove values that didn't sell & match closer to the competition. Captured the impact of restructuring on demand using an adjustment algorithm.
 - Estimated ~2% increase in revenue/capacity and the ability to react quickly to competition's fare action. I was awarded '6E Achiever (Employee of the month Sep'18)'.
- *Represented IndiGo at AGIFORS'18 Conference (Hong Kong) on the latest innovations in Operations Research & Data Science applied to Airline Revenue Management.*

Executive • Revenue Planning & Analysis (Commercial) • IndiGo Airlines

Apr'17 to Mar'18

- *Seat Inventory Optimization System (RMNext)*
 - Led the development of RMNext that incorporated a forecasting model, an optimization model (EMSR-b) & a strategic decision tree to match competition.
 - Led to 5-7% YoY improvement in revenue/capacity by increasing occupancy rate & yield.
 - Awarded 'High Business Impact (Commercial Awards Nov'17)' & '6E Achiever (Employee of the Month- Aug'17)'.

Executive • Planning & Performance Analytics (President's Office) • IndiGo Airlines

Nov'16 to Mar'17

- Identified critical path using PERT-CPM out of 74 processes of aircraft pit-stop to reduce TAT.
- Analyzed the no. of on-ground aircrafts / airport / minute to optimize headcount requirement.

Associate Consultant • Data Science • CenturyLink Cognilytics

Jul'15 to Sep'16

- *Fleet Management of Buses using Survival Analysis & Genetic Algorithm*
 - Worked on Predictive Vehicle Maintenance to predict failure time of vehicle components.
 - Reduced net cost by ~10% by making repairs more preventive & less reactive
- *Optimization of Recommendation Engine for a Telecomm Company*
 - Tracked customer journey to develop propensity models to cross/upsell products.
 - Designed a framework for end to end implementation and model management using SAP PA.