HARSHVARDHAN

University of Tennessee, Knoxville

(865) 315-3825 | harshvar@utk.edu | https://www.harsh17.in

EDUCATION

University of Tennessee, Knoxville — Knoxville, TN
PhD Candidate, Business Analytics and Statistics — 2021 – Present (Expected May 2025)
- Coursework: Time Series Analysis, Econometrics, Machine learning, Network Flow Optimization, Data Mining Methods
- Research: Forecasting, Inventory Optimization, Inventory Sizing, Machine Learning, Applied Statistics

Indian Institute of Management Indore — Indore, India
MBA — *2019 – 2021*
- Coursework: Strategic Management, Economics, Ethics, Marketing Research, Financial Analytics, Predictive Analytics

Indian Institute of Management Indore — Indore, India
BA (Foundations of Management) — *2019 – 2021*
- Coursework: Statistics, Development Economics, International Trade, Philosophy, Psychology, Sociology, SQL Databases

EXPERIENCE

HP Inc. — Vancouver, WA
PhD Data Science Intern, Strategic Planning and Modeling (SPaM) — May 2022 – Present
- Forecasted demand for 10,000+ HP print products in 40 geographies using ML with Python with feedback from planners
- Awarded HP InternStellar Award (First Runner-up) for Best Internship Project in Technical Impact Category

Aspect Ratio (Merck Global Centre) — Pune, India
Analyst — April 2021 – June 2021
- Developed inferential and forecasting models for Merck vaccines in EU and US markets using R and medical databases
- Initiated code standardization and automation efforts by building an internal SQL code-writing tool with R Shiny

Tata Consultancy Services (TCS) — Chennai, India
MBA Summer Intern — May 2020 – July 2020
- Retained strong domain knowledge in the retail value chain, operations, technologies, point of sales and unified commerce
- Formulated a list of 20+ potential technology alliances by studying 500+ exhibitors at NRF Big Show over past three years

SELECTED PROJECTS

Fortune-500 Biopharma Co. — US/EU Offices
Optimizing Safety Stock — January – May; September – December 2022
- Analyzed two years of inventory and demand data to recommend ordering policy improvements, including ROP changes
- Optimize safety stock levels by SKU and DC location, considering the benefits and cost of inventory reduction in practice
- Created differentiated safety stock plans with fill rates for SKUs classified based on order frequency and dollar volume

CPG Co. — Greenville, NC
Optimizing Order Frequency — October 2021 – January 2022
- Investigated ordering behavior of 1000 customer locations for 400+ SKUs to minimize partial pallet orders over two years
- Designed framework for finding opportunity-rich customers by comparing pallet sizes with order frequency

Invento Robotics — Bengaluru, India
Launching Humanoid Robot: Mitra Robot — July 2020 – January 2021
- Recorded case study of launching *Mitra* and *Mitri* with management decisions around price, sales channel, and promotions
- Product launch was incredibly successful; used by various agencies for marketing and assistance during COVID-19 pandemic

Asar for India (Non-profit) — Remote
R Shiny Webapp — April 2021 – June 2021
- Coded an R Shiny app to produce aggregated population statistics at district or state levels for 200+ countries for researchers

Open-Source Projects — Remote
Programming Contributions — January 2021 – Present
- Functional knowledge of Git, GitHub, GitHub Actions and other related tools with 2+ years of contribution experience
- Collected Indian ZIP codes into an R Package IndiaPIN; compiled utility functions and a ggplot2 theme as an R package garlic

ADDITIONAL INFORMATION

- **Technical skills:** Python (pandas, scikit-learn, cvxpy, LightGBM, FLAML), R (Tidyverse, Tidymodels, Shiny, R Markdown), SQL, Tableau
- Write a weekly newsletter, *Next — Today I Learnt About R*, on featured stories around data science and R programming
- Treasurer of newly minted INFORMS Student Chapter at the University of Tennessee Knoxville from 2021 to Present
- Enjoy hiking, trekking, biking, kayaking, rafting, parasailing, scuba diving, sky diving and other adventure sports
- Citizen of India; Fluent in English, Hindi and elementary German