

Harshvardhan (Harsh)

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[GitHub](#) | [LinkedIn](#)

EDUCATION

University of Tennessee, Ph.D. in Business Analytics, Knoxville, TN Expected May 2025

- Full scholarship for four years; GPA: 3.81/4.0; Nominee for Outstanding Doctoral Student Teacher Award

Indian Institute of Management, M.B.A. (Major: Analytics), Indore, India 2019-21

- GPA: 3.23/4.33 (Top-13 percentile); Selected Coursework: Predictive Analytics, Entrepreneurship, Operations

University of Latvia, International Exchange as EU Erasmus+ Scholar 2019

- GPA: 10/10 (with distinction); Selected Coursework: International Law, International Advertising

Indian Institute of Management, B.A. in Foundations of Management, Indore, India 2016-19

- GPA: 3.30/4.33 (Top-17 percentile); Selected Coursework: Economics, Statistics, Psychology, Sociology

PROFESSIONAL EXPERIENCE

Graduate Assistant, University of Tennessee, Knoxville, TN August 2021 – Present

- Worked on applied research with industry partners including HP, Alibaba, and a Fortune-500 CPG company
- Taught 115 undergraduate students from diverse majors Introductory Statistics 201 and using AI Tools
- Awarded UT Graduate Fellowship and Haslam Travel Grant; Top-12 Finalist in 3 Minute Thesis Competition

HP Inc. (SPaM), PhD Data Science Intern, Vancouver, WA May 2022 – Aug 2023

- Developed LightGBM time-series forecasting model for all print business: 18,000 SKUs for 170+ countries
- Directly engaged senior management in Print Supply Chain to present findings & modernize forecasting system
- Runner-up for HP's InternStellar Award 2022 recognizing Top-3 projects for Technical Impact across all offices

Aspect Ratio (Merck Global Center), Analyst, Pune, India April 2021 – June 2021

- Created inferential and time-series forecasting models in R for Merck HPV vaccines in EU and US markets
- Initiated and led code automation efforts by operationalizing first-ever automated SQL writing R Shiny app

Tata Consultancy Services — Retail, MBA Summer Intern, Chennai, India May 2020 – July 2020

- Shortlisted a prospective list of 20+ potential technology partners and alliances with SWOT analysis
- Acquired strong domain expertise in the retail value chain, operations, unified POS commerce

LEADERSHIP EXPERIENCES

Treasurer, INFORMS UTK Chapter, Knoxville, TN April 2022 – Present

- Led a team of five to organize three events promoting student engagement in analytics and operations
- Drafted constitution & managed group finances, including accounting for donations, expenses, and fundraising

SELECTED PROJECTS (Full List)

- **Print Demand Forecasting with Machine Learning at HP Inc.** Under review at *INFORMS Journal of Applied Analytics*, top applied analytics journal. 2024. Tech used: LightGBM & FLAML in Python, MLFlow, Tableau.
- **End-to-End Inventory Prediction and Contract Allocation for Guaranteed Delivery Advertising.** Collaboration with Alibaba Inc. Published at *ACM SIGKDD 2023*, premier data science conference. 2023.
- **Map of Tiny Perfect Things.** Mapping project with crowdsourced data on best restaurants, cafes in 10+ cities. PerfectPlaces.cool and ChatGPT.Github. Tech used: Next.js, Github Actions, Python.
- **R Projects:** Street Maps with leaflet, Urban-Rural Population R Shiny app, COVID-19 data integrity with Benford anomaly detection analysis; R Packages: garlic (utility functions), IndiaPIN (dataset of Indian PIN codes)

OTHERS

- **Skills:** Expertise in R (Tidyverse), Python (Pandas, Scikit-learn, AutoML), SQL, MS-Azure, MLFlow, STATA, LaTeX
- **Membership:** Member of AI Tennessee Task Force, INFORMS, and IIM Society
- **Writing:** Regularly post blogs at blog.harsh17.in & data science newsletter at harsh17.in/next with 7000 visitors
- **Reading:** Interested in reading historical books, apocryphal and anecdotal stories, and curious nonfiction
- **Adventure:** Avid hiker with 20+ hikes in Smokey Mountains; All India Trek Best Cadet NCC (India)