HARSHVARDHAN

Haslam College of Business, University of Tennessee, Knoxville

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EDUCATION

Haslam College of Business, University of Tennessee, Knoxville   *Aug '21 – Present*
PhD in Analytics

Indian Institute of Management Indore   *Jul '19 – Apr '21*
Master of Business Administration (MBA)   3.23/4.33 (first year, top 13 percentile)

Latvijas Universitāte (University of Latvia), Latvia   *Jan '19 – Jun '19*
International Exchange Semester (ERASMUS+ Scholar)   10.0/10.0 (with distinction)

Indian Institute of Management Indore   *Aug '16 – Jun '19*
Bachelor of Arts (Foundations of Management)   3.30/4.33 (top 17 percentile)

RESEARCH WORKS

Peer-reviewed Book Chapters

Ranjan, P. and **Harshvardhan, M.** (2022). "The Evolution of Dynamic Gaussian Process Model with Applications to Malaria Vaccine Coverage Prediction". In D.D. Hanagal, R.V. Latpatel & G. Chandra (Eds.), *Applied Statistical Methods: ISGES 2020.* Springer. Singapore. [arXiv:2012.11124; Google Books]

Harshvardhan, M., & Ranjan, P. (2019). "Statistical Modelling and Analysis of the Computer-Simulated Datasets". In B. Gupta, & D. Agrawal (Eds.), *Handbook of Research on Cloud Computing and Big Data Applications in IoT* (pp. 202-228). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-8407-0.ch011 [arXiv:2012.11122]

Peer-reviewed Case Study

Harshvardhan, M. and Kumar, B. (2021). "Invento Robotics: Launching Humanoid Robots". Case Study and Teaching Note. *Ivey Publishing.* [The Case Centre]

Developed case of innovative product launch and management including pricing, distribution and promotions

Manuscript

Harshvardhan, M. and Nilakantan, R. (2020) "Technical Efficiency of Indian Higher Education Institutes". *Manuscript under preparation.*

Evaluated efficiency of top-50 engineering & management institutes; compared different groups of institutes

WORK EXPERIENCES

Aspect Ratio (Merck Global Centre)   *April '21 – Jun '21*

Developed inferential and forecasting models for Merck vaccines in EU and US markets; initiated code automation efforts by operationalising the first-ever internal automated code writing R Shiny app

Asar for India (*pro bono*)   *April '21 – Jun '21*

Created R Shiny app that creates a spreadsheet of population levels segregated at district, state, or any other level for more than 200 countries

INTERNSHIPS

Academic Internships

Research Intern under Prof Pritam Ranjan   *May '18/19 – Jun '18/19*

Studied Gaussian correlation structures and Gaussian models to understand impact of parameters and analysed algorithms to evade near-singularity

Business Internships

Tata Consultancy Services, Retail (https://www.tcs.com/retail)   *May '20 – Jul '20*

Developed strong domain knowledge in retail value chain, operations, technologies, modern point-of-sales and unified commerce; studied generic omnichannel strategies in depth

Kriger Campus, Startup (https://kriger.in/)   *Apr '18 – May '18*

Coordinated trust-based referral marketing campaign with 1,000+ participants reaching 18,000+ students across the country

SELECTED PROJECTS

Live Projects

Bliss Lifesciences (http://www.blisslifesciences.com)   *Mar '20*

Surveyed 300+ participants and analysed data to recommend a complete digital marketing and footprint strategy with visibility, cost and return on investments. Tools used: SPSS and Microsoft Excel.

Chai Kaapi (https://www.thechaikaapi.com)   *Nov '18*

Examined consumer information collected from 3.27 lac+ receipts at 11 stores over 3 years for footfall trends, value boost and frequent baskets. Tools used: R and Microsoft Excel.

Open-source (Github: https://harsh17.in/github)

garlic (https://harshvardhaniimi.github.io/garlic/)   *Mar '22*

R package for common utility functions for exploring data, manipulating variables and a new `ggplot2` theme.

IndiaPIN (https://github.com/harshvardhaniimi/IndiaPIN)   *Jan '22*

R data package for geographic details for 19,300 PIN codes (ZIP codes) in India.

TALKS AND LECTURES

Workshop on "Personal Website for Academics" at INFORMS — University of Tennessee Chapter, 2022

Invited talk "I Web, Therefore I Exist" on creating and controlling digital identity at R Users Trenton, 2022

Guest lecture on "Introduction to Shiny on RStudio" for FPM (PhD) students at IIM Indore, 2020

Tutorial on "Using LaTeXfor Resume and Assignments" for undergraduate students at IIM Indore, 2018

Guest lecture on "Introduction to LaTeX" open for all IIM Indore participants, 2017

SCHOLARSHIPS AND GRANTS

Awarded ERASMUS+ grant by European Commission for exchange semester at University of Latvia, 2019

Awarded Ministry of Defence scholarship by Government of India at Sainik School Tilaiya, 2009–16

Awarded Government of Jharkhand scholarship at Sainik School Tilaiya, 2009–16

STUDENT ACTIVITIES

Coordinator, Corporate Involvement, IRIS '20, *Aug 19 – Present*: Led a team of 10 members to engage and invite global leaders; coordinated with government agencies and stakeholders for sessions

Coordinator, Information Technology Club, *Mar '18 – Mar '19*: Organised 8+ tech events and international video-conference workshops; initiated a podcast on tech-economy

Volunteer, Data Science for Business Workshop, *April 2018*: Student volunteer of Data Science for Business Workshop with 10 CXOs and 750+ attendees at IIM Indore

EXTRACURRICULAR

Hockey (Zonal Silver Medallist '13), Cultural - Mime and Music (Zonal Gold Medallist '14), Sainik Schools

Adventure Sports: Trekking (All India Gaya Trek Best Cadet), Sky Diving, Parasailing, Kayaking, Rafting

SOFTWARE SKILLS

Programming R, Python, SQL, C, C++

Data Analysis SPSS, STATA, Advanced Excel (VBA)

Writing LaTeX, HTML, CSS, YAML

Last updated: April 11, 2022