□+61 423 889 998 | ☑gupta.sayani@gmail.com | ☆sayani.netlify.app | ☑Sayani07 | 圖sayaniqupta | УSayaniGupta07

Technical Skills

- Programming/Software: R, SAS, SQL, Hadoop, Hive, LaTeX, Git, Github and continuous integration
- Data Science: exploratory data analysis, visualization, statistical modeling, forecasting, high-performance computing, web scraping and data cleaning

Education

Monash University Clayton, Australia

PHD (THESIS SUBMITTED NOVEMBER, 2021) IN ECONOMETRICS AND BUSINESS STATISTICS Feb. 2018 - present

Indian Statistical Institute New Delhi, India

M.Stat (Masters in Statistics with Quantitative Economics Specialization)

Jul. 2011 - May. 2013

St. Xavier's College (Calcutta University)

B.Sc (Honours in Statistics)

Jul. 2008 - May. 2011

Analytics/Consulting Experience

Monash Statistical Consulting Service

Clayton, Australia

Kolkata, India

CONSULTANT

Jul.2019 - Nov. 2019

• Survey analysis in Translation and Interpreting Studies

PAYBACK Gurgaon, India

SENIOR ANALYST Jun. 2018

• Customer segmentation, predictive modeling, developing customer engagement, estimating wallet potential

KPMG Delhi/Gurgaon, India

CONSULTANT Aug. 2014 - May. 2016

Electricity demand and price forecasting at Day-ahead Exchange markets, developing a Southern African Power Pool Transmission Pricing Mechanism (SAPP), Review of functioning of a power exchange of India - An audit of the Matching Engine/ Software Application used for price discovery and market splitting for various market segments

AF Mercados Energy Markets India Pvt. Ltd.

Delhi, India

CONSULTANT

Jun. 2013 - Jul. 2014

• Developing a Southern African Power Pool Transmission Pricing Mechanism (SAPP), Techno-economic analysis of the Indian power sector - demand (historical and projected), generation capacity (including long-term tie-ups), and future fuel supply and costs

Teaching experience _

Monash University Clayton, Australia

TEACHING ASSOCIATE

S1 2019 - S1 2021

Applied forecasting for business and economics (ETC3550/ETC5550)

Monash University Clayton, Australia

TEACHING ASSOCIATE S2 2019

• Data modelling and computing (ETC1010)

Monash University Clayton, Australia

TEACHING ASSOCIATE (HEAD TUTOR)
S2 2020

• Exploratory Data Analysis (ETC5521)

Publications

Visualizing probability distributions across bivariate cyclic temporal granularities

JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS

https://doi.org/10.1080/10618600.2021.1938588

Day ahead price forecasting models in thin electricity market

IEEE POWER AND ENERGY CONFERENCE AT ILLINOIS (PECI)

• https://ieeexplore.ieee.org/document/7935757

published 2021

published

2017

Working papers _____

Detecting distributional differences between temporal granularities for exploratory time series analysis

working paper

SELECTING MOST INTRIGUING PLOTS WITH SIGNIFICANT DISTRIBUTIONAL DIFFERENCES

2021

Clustering time series based on probability distributions across temporal granularities

working paper

CLUSTERING DISTRIBUTIONS CONDITIONAL ON TIME DECONSTRUCTIONS ACROSS WHICH PATTERNS ARE SIGNIFICANT

202

Rpackages _____

2020 **gravitas**: Lead developer (Google Summer of Code 2019 internship)

Explore Probability Distributions for Bivariate Temporal Granularities

2020 **gghdr**: Author

Visualisation of Highest Density Regions (HDR) using ggplot2

2018 **cricketdata**: Author International Cricket Data

Talks

One World Symposium (virtual)

https://sayanigupta-ows2020.netlify.app/

International Indian Statistical Association (Mumbai, India)

https://sayanigupta-iisa2019.netlify.app/

Young Statisticians Conference (Canberra, Australia)

https://sayanigupta-ysc.netlify.app/

useR! (Brisbane, Australia)

https://www.youtube.com/watch?v=VdFo1W8j1tU

Awards/Achievements_

- 2021 ACEMS Business Analytics Prize (\$3,000 AUD)
- 2020 Greater than 9K CRAN (The Comprehensive R Archive Network) downloads for R package gravitas
- 2019 Ranked the second best student presenter at the Young Statistician's Conference (\$200 AUD)
- 2018 Monash Business School Student Excellence Award for academic excellence in Statistical Inference

SAYANI GUPTA · CURRICULUM VITAE

- 2018-present Co-funded Monash Graduate Scholarship, DATA61 Supplementary Postgrad Scholarship
- · 2017 Torchbearer award, PAYBACK India
- 2015 Encore Super Team, KPMG India

Referees____

Prof. Rob J Hyndman* Rob.Hyndman@monash.edu +61 (3) 9905 5141 Prof. Dianne Cook* dicook@monash.edu +61 (3) 990 5 2608

Dr. Emi Tanaka* emi.tanaka@monash.edu +61 (3) 9905 0084

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