

BERYL GNANARAJ

PhD Candidate

International Institute of Information Technology, Bangalore

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Education

International Institute of Information Technology, Bengaluru **2021 – Present**

Ph.D. in Computer Science, Supervisor: Dr. Jaya Sreevalsan-Nair

Research interests: Eye Tracking Data and Analysis, Gaze Data, Cognitive Science, Survey Response Analysis and Statistical Techniques, Question Classification, Population Survey Data Visualization

College of Engineering, Anna University, Guindy, Chennai, TN **2012 – 2014**

M.Tech. in Information Technology, Supervisor: Prof. Ranjani Parthasarathi

CGPA: 9.52

SSN College of Engineering, Chennai, TN **2008 – 2012**

B.E. in Computer Science and Engineering

CGPA: 8.57

Experience

International Institute of Information Technology **September 2020 – August 2021**

Research Assistant

Bengaluru, KA

Infosys Ltd., Information Systems Unit **December 2014 – August 2020**

Technology Analyst in various .NET applications

Bengaluru, KA

Technical Skills

Languages: R, Python, C#

Technologies/Frameworks: SQL Server, PsychoPy, PyCharm, RStudio, SPSS, PSPP, Tableau, R Shiny, Plotly Dash

Projects

National Family Health Survey Viz | R Shiny **September - December 2020**

- Created an RShiny Dashboard app with visualizations.
- Cleaned and preprocessed the dataset to use it for visualizations.
- Visualizations created: map-based bubble charts, state and district choropleth maps of various ordinal variables using shape files, pyramid chart and sankey plots.
- Link: Click GVCL NFHS4 Shiny App to go to the app.

Sawaliram Viz | Python, Plotly Dash **April 2020**

- Analyzed questions received on the sawaliram website.
- Used NLTK to create word clouds of uni-grams and bi-grams.

Publications

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- [1] Beryl Gnanaraj and Jaya Sreevalsan-Nair, "EyeExplore: An Interactive Visualization Tool for Eye-Tracking Data for Novel Stimulus-based Analysis." In *Proceedings of the 2023 Symposium on Eye Tracking Research and Applications*, 2023, pp. 1-2.
- [2] Jaya Sreevalsan-Nair, Aswathi Mundayatt, Beryl Gnanaraj, Ancymol Thomas, Naveen C. Kumar, Gajanan Ganapati Sabhahit, Sourabh Joshi, and T. K. Srikanth. "Mental healthcare in the times of climate change action and data science." In *Data-Driven Insights and Analytics for Measurable Sustainable Development Goals*, edited by Tilottama Goswami, Sonal Mobar Roy, and Sabrina Senatore, Elsevier, USA, (accepted).

Relevant Coursework

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- Data Visualization
 - Advanced Data Visualization
 - Quantitative Data Analysis for Public Policy
 - Visual Recognition
 - Reading Elective - Grouped Variables in Surveys