SAMARTH CHUGH

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EDUCATION

Netaji Subhas Institute of Technology, University of Delhi   **2015-2019**
Bachelors of Engineering in Information Technology – 75.04% *(upto 6th Semester)*
Coursework – Programming | Statistics and Probability | Algebra | Calculus | Markov Analysis
Mount St. Mary's, Delhi
Senior Secondary Education – 12th Grade CBSE – 96.2%   **2015**
Secondary Education – 10th Grade CBSE – 9.4 CGPA   **2013**
Joint Entrance Examination (JEE) Main | All India Rank – 5657 | Percentile: 99.6   **2015**
Awarded a letter of appreciation for CBSE 12th board result by Former HRD Minister of India, Smriti Irani

PROJECTS

Addressing Health Inequality in United States | Accepted at AAAI 19 | Github   **2018**
Contact Dr. Tavpritesh Sethi |arXiv: 1809.09215
• Identifying factors that affect longevity of life and inequality in life expectancy using Bayesian Decision Networks
• Created an interactive web-application for public and inferences were made for the United States population.
Supernode Routing in Opportunistic Network | Published at AIHC | Github   **2018**
Contact Dr. Deepak Sharma and Dr. Deepika Kukreja | DOI: 10.1007/s12652-018-0993-y
• Proposed a new routing scheme wherein network area was divided into grids for increasing efficiency.
• Applicable to sparse scenarios of army-camps and inter-city communication.
Acknowledgement System in Routing | Accepted at PGDC 18 | Github   **2018**
Contact Dr. Deepak Sharma
• Added an acknowledgement system in Opportunistic Networks for past protocols using JAVA.
• Improved the efficiency in terms of throughput and overhead costs for the network
Intelligent Data Analysis | Book Chapter | Submitted, Wiley   **2018**
• Introduction to Statistical Methods – descriptive and inferential.
• Discussed the methods and models for effective analysis and the errors made in predictions.
Wise-R 2.0 – Web Deployment of Bayesian Network Models | *(On-going work)*
• R/Shiny application for learning, reasoning, inference, validation, visualization and web-deployment
• Implementing Sensitivity Analysis using Structural Intervention Distance for significant variable extraction
Indian Human Development Survey | *(On-going work)*
• Usage of IHDS Data to analyze correlation between variables and prepare a tool for prediction.
• Developed visualization assistance and performed regularization to extract relevant variables.
Big Data Analytics in Healthcare | Book Chapter | *(On-going work)*
• Application of tools and techniques of Big data analytics for healthcare system
• Discussed the scope, past and future work to provide a holistic view of the domain

WORK EXPERIENCE

Research Internship | Dr. Tavpritesh Sethi's Lab   **2018**
• Worked in a team to tackle datasets using Bayesian Networks for drawing useful inferences with the help of R.
Volunteer Work | NGO   **2015**
• Samarthya Foundation – Helped organize "Selfie with a tree" event which encouraged environmental awareness
Web Development
• Technokart India - Interned at iSocialNow • Meet Around - Interned at Startup   **2016**
• NSIT Moksha, Consillium – College   **2016**

TECHNICAL SKILLS

Languages: R, Python, C++, HTML, CSS, JavaScript, SQL | Tools: RStudio, Linux, Git, Photoshop, After Effects

INTERESTS AND ACTIVITIES

Vice President of Computer Club : 2014-15 | Organized Programming, Web development & Gaming Competition
Instruments - Ukulele, Synthesizer | Sports - Table Tennis (District Level), Football (College Team)
CSI NSIT (College Web Development Competition) – 1st Position