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| Rishika Sen  Data Science, Data Analysis, Machine Learning, Python  Data Scientist II, Ericsson, Bangalore Work Experience **Ericsson**, Data Scientist, March 2021 onwards. Contributions are:   * Explainable AI: have worked with various explainable techniques like SHAP, LIME, etc. * Trustworthy AI: have worked with various principals of Trustworthy AI and its impact on telecom usecases. * Anomaly detection: Worked in anomaly detection of time series data.   **Syngene International**, Research Investigator. Feb 2021-Feb, 2022.  Contributions are:   * QSPR modeling: Clients are successfully predicting physicochemical properties at various temperatures using the regression models built. * Distance based text clustering: Working on clustering of chemical terms and phrases based on text similarity. * Mass spectra prediction: Working on prediction of branching positions and branch counts of various chemical compounds based on their mass spectra.  Education **PhD, Computer Science** [2014 – 2021] Indian Statistical Institute, Kolkata.  Supervisor: Professor Rajat K. De.  Thesis title: In silico Identification of Toxins and Their Effect on Host Pathways: Feature Extraction, Classification and Pathway Prediction  **MSc, Computer Science** [2012 – 2014] University of Calcutta, Kolkata. University rank 9, 75.8%.  **BSc, Computer Science** [2009 – 2012] University of Calcutta, Kolkata. University rank 6, 74.6%. Journal publications  * **Rishika Sen**, S. Tagore, R. K. De. "Cluster Quality based Non-Reductional (CQNR) oversampling technique and Effector Protein Predictor based on 3D structure (EPP3D) of proteins." *Computers in Biology and Medicine.* * **Rishika Sen**, S. Tagore, R. K. De. “ASAPP: Architectural Similarity-based Automated Pathway Prediction System and its Application in Host-Pathogen Interactions.” *IEEE/ACM Transactions on Computational Biology and Bioinformatics.*   A full list of publications and posters is on my [website](https://rishikasen.de/). | Contact: +91 98302 41122  rishika21sen@gmail.com Skills **ML techniques:**  Explainable AI, Trustworthy AI, Anomaly detection, Clustering, Regression, Classification, Predictive modeling, EDA, Data visualization, Predictive analysis.  **Languages:**  Python, Matlab, SQL.  **Python packages:**  keras, sklearn, tensorflow, pandas, numpy, matplotlib.  **Proficient in:**  English, Bengali, Hindi.  **Online resources:**  [Github](https://github.com/survivebycoding), [Google Scholar](https://scholar.google.com/citations?user=hUPBZwkAAAAJ&hl=en), [LinkedIn](https://www.linkedin.com/in/rishika-sen-phd-2b5b0126/) Coursework **PhD:** Neural networks, Pattern recognition, Data Structures, Computer Organization, Database Management Systems, Operating Systems.  **MSc:** Soft computing,Computer Architecture, Data Communications, Computer Networks, Design and Analysis of Algorithms, Computer Graphics and Image Processing, Software Engineering, Object oriented Systems, Automata Theory and Compiler Design, Information Security. |