Dr. Rakesh Kanji

Assistant Professor

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Educational Info

PhD (Computer Science & Engineering)   2018   IIT **Jodhpur (Raj.)**
M.Tech. (Computer Science and Engineering , July 2012) 2009   **University of Kalyani**
B.Tech. (Information Technology)   2010   RCCIIT (West Bengal University of Technology)

Research Interests

 Machine learning, Side effect modelling, **Personalized medicine, Natural language processing**

Select Publications / Patents /etc.

1. Kanji, R., Bagler, G.\A generalized partial canonical correlation model to measure individual drug feature towards side effects prediction.", presented in 1st international conference ICDSM (Springer Proceedings),2019 (accepted).

2. Kanji, R., Sharma, A., Bagler, G.\Phenotypic side effects prediction by optimizing correlation with chemical and target profiles of drugs." Molecular BioSystems,Royal Society of Chemistry, Vol(11): 2900{06, 2015. Impact factor:3.2.

3. Garg, N., Sethupathy, A., Tuwani, R., NK, R., Dokania, S., Iyer, A., Gupta, A., Agarwal, S., Singh N., Sukla, S.,Kriti , K. , Badhwar, R., Kanji, R., Jain, A., Kaur, A., Nagpal, R., and Bagler, .G, \ FlavorDB: A database of flavor molecules." Nuclic Acid Research, Vol (1), 2017. Impact factor:10.

4. Wadwha, S., Gupta, A., Dokania, S., Kanji, R., Bagler, G.\A hierarchical anatomical classification schema for prediction of phenotypic side effects.", PLOS One, Vol (13): e0193959, 2018. Impact factor:2.86.

5. Kanji, R., Mandal, J.K.\Invisible Image Watermarking Using Z Transforms (IIWZT)." Chapter Advances in Computing and Information Technology,Spinger, vol(177):797{804, 2012.

6. Kanji, R., Mandal, J.K.\ Watermarking Into Imaginary Coefficients of Z domain (WIZD)." *Second national conference on Computing and Systems, Precodeeniges published by University of Bardwan* ,219{223, 2012

National eligibility

National Eligibility Test (University Grant Commission) as assistant professor in December, 2019.

Faculty development program

• Object oriented programming by JAVA (NPTEL, IIT KGP) (January-April, 2019). *Score:82 (ELIT silver group)*.
• Practical machine learning by Tensorflow (NPTEL, IIT MADRAS AND GOOGLE) (Sept-Nov, 2019). Score:66 (ELIT group).

Awards • 2nd best Doctoral symposium in IBM Research Showcase, April 2017.

Talk presentation
1. Kanji, R., Sharma, A., Bagler, G.\Role of secondary neighbors of targets in specifying phenotypic side effects of drugs." *International conference sponsored by DST held in Indian Institute of technology Kanpur*, 2015.
2. Kanji, R., Sharma, A., Bagler, G.'Role of topological features of genomic space in specifying phenotypic side effects of drugs." *National Interdisciplinary Conference on Science and Application, Shiva Nadar University (India)*, 2015.