TANIYA SETH

Taniya is a DST INSPIRE (Govt. of India) Research Fellow in the Department of Computer Science, at South Asian University, India. Her research interests include Machine Learning (Deep Learning), Data Science, and Fuzzy Logic. A motivated individual herself, she engages in activities advocating diversity in STEM while discussing about various challenges. Recognized for her community involvement and contribution, she has been recognized as a Google Women Techmakers 2018 and a GHC 2020 Scholar.

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https://codtan.github.io

EDUCATION

South Asian University
Ph.D. Computer Science
8.37/9 | 2017-ongoing
M.Sc. Computer Science
8.65/9 | 2015-2017

University of Delhi
B.Sc. (H) Computer Science
88.7/100 | 2012-2015

SKILL SET

Fuzzy Logic, GANs, VAEs, RBMs, Time Series, MATLAB, Scientometrics, Python: Tensorflow, Keras, Pandas, Matplotlib, Numpy, Folium etc.

CO-CURRICULAR EXPERIENCE

Visiting Researcher |
University of Santiago de Compostela
Chapter Lead | GirlScript
Outreach Manager | Lean In India
Founder | Lean In South Asian University Circle
Founder | SAU Programming Club
Community Head | Delhi WiMLDS

INTERESTS

Love music; possess professional degree in various subjects of Vocal Indian Classical Music

Gained professional training in Kathak dance form and Fine Arts for 15 years

Volunteer and participate in various workshops and conferences

COMPLETED PROJECTS AND PUBLICATIONS

- **T. Seth**, A.K. Shukla, P.K. Muhuri, '*Analysis of impact of COVID-19 on Global Research*', (submitted).
- **T. Seth**, P.K. Muhuri, '*Perceptual Computing with Comparative Linguistic Expressions*', IEEE WCCI, July 2020, United Kingdom.
- Priyanka Mehra, **T. Seth**, P.K. Muhuri, '*Generating Quality IF-THEN Rules for Diabetes using Linguistic Summarization*', IEEE WCCI, July 2020, United Kingdom.
- **T. Seth**, Priyanka Mehra, P.K. Muhuri, '*A Perceptual Computing based Decision Support System for Non-clinical Diagnosis of Diabetes Mellitus*', (submitted).
- **T. Seth**, P.K. Muhuri, '*Type-2 Fuzzy Set based Hesitant Fuzzy Linguistic Term Sets for Linguistic Decision Making*', (major revision).
- A.K. Shukla, S.K. Bansal, **T. Seth**, A. Basu, R. John, P.K. Muhuri, '*A Bibliometric Overview of the Field of Type-2 Fuzzy Sets and Systems*', IEEE Computational Intelligence Magazine, vol. 15(1), pp. 89-98.
- **T. Seth**, P.K. Gupta, P.K. Muhuri, '*A Linguistic Decision Making Model for Psychometric Tests*', FUZZ-IEEE 2019, New Orleans, USA.
- M. Janmaijaya, A.K. Shukla, **T. Seth**, P.K. Muhuri, '*Interval Type-2 Fuzzy Restricted Boltzmann Machine for the Enhancement of Deep Learning*', FUZZ-IEEE 2019, New Orleans, USA.
- A. Basu, D. Malhotra, **T. Seth**, P.K. Muhuri, '*Global Distribution of Google Scholar citations: A size-independent Institution-based Analysis*', Journal of Scientometric Research, vol. 8(2), pp. 72-78.
- **Retinaid: The Visual Assistant**, Android app wireframe, Anita's Moonshot Codeathon, March 2018. (Ranked **13 among 50+** apps worldwide, based on public voting)
- **T. Seth**, P.K. Muhuri, '*A Novel Solution Approach for Fuzzy Linear Bilevel Multi-follower Programming Problems*', IEEE WCCI, July 2018, Brazil.
- **T. Seth**, P.K. Gupta, P.K. Muhuri, '*Hesitant Fuzzy Linguistic Term Sets for Group Decision Making in Supplier Performance Evaluation*', IEEE WCCI, July 2018, Brazil.
- A.K. Shukla, **T. Seth**, P.K. Muhuri, '*Interval Type-2 Fuzzy Sets for Enhanced Deep Learning*', FUZZ-IEEE 2017, Naples, Italy.

MERITS AND AWARDS (selected)

- **Completed HacktoberFest 2020** | Digital Ocean | October 2020
- **GHC 2020 Scholarship** | Virtual Grace Hopper Celebration for Women in Computing | June 2020
- **IEEE CIS Full Registration Grant** | IEEE Computational Intelligence Society | 2020, 2019, 2018
- **DST INSPIRE Fellow** | Ministry of Science and Technology | Govt. of India | Sept 2019
- **Google Women Techmakers Scholarship APAC 2018** | Google APAC | Oct 2018
- **IEEE Women in Engineering Grant** | IEEE Women in Engineering | May 2018
- **First prize for Masters' Thesis, YTD Contest** | III European Summer School on Fuzzy Logic and Applications (SFLA), University of Santiago de Compostela (USC), Spain | July 2017
- **EUSFLAT Student Grant (one of 9 students worldwide)** | SFLA, USC, Spain | July 2017
- **ACM-W Scholarship** | 2017 IEEE International Conference on Fuzzy Systems, Italy | May 2017
- **Gold Medal, Masters in Computer Science** | South Asian University, India | May 2017
- **GHCI 2016 Scholarship** | Grace Hopper Celebration for Women in Computing India, Bangalore |

EXTRA CURRICULAR ACTIVITIES & ACHIEVEMENTS (selected)

- **Active Open Source contributor**
- **Duly elected President of the Student's Union** | Shaheed Rajguru College of Applied Sciences for Women | 2014
- **All-rounder student** | Shaheed Rajguru College of Applied Sciences for Women | 2012-2015
- **Performed a dance piece choreographed by Shiamak Davar** | XIX Commonwealth Games, Delhi