Purvanshi Mehta

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EDUCATION

University of Rochester, New York, United States August '19 - December '20 M.S. in Data Science Thapar Institute of Engineering and Technology, July '14 - June '18 Bachelor of Engineering (B.E.) in Software Engineering CGPA: 8.7 / 10.0 Deep Learning on Heterogeneous Information Sources Thesis:

Advisors: Dr. Marius Kloft (Professor, Computer Science, TU Kaiserslautern, Germany) Dr. Jhilik Bhattacharya (Assistant Professor, Computer Science and Engineering, TIET, India)

INDUSTRY EXPERIENCE & TECHNICAL PROJECTS

Applied Machine Learning Engineer *Neuralspace, U.K.* June '18 - June '19 Medical Image Processing Worked on uncertainty estimation in medical data using probabilistic Deep Learning models.

Out-of-Stock Prediction Prediction of the items that would go out of stock the next day in the store. Day of the week, locality of the store, demand in the region were some of the factors considered in the prediction.

Simple Interest Word Problem Solving

Capstone project Developed a platform on which solved simple interest word problems. Solution to a problem was explained in form of interesting graphics and visualisations. ISolveMath won second prize at Project Women in Engineering IEEE, India North section.

Credit Score Generation Using Customer Profiling

Summer research intern under Ankit Parikh, Client - FlexiLoans II Creators, Udaipur Worked on the sentiment analysis module for automatic credit score generation. Facebook comments and statuses were analyzed to predict sentiment between a range of -3 to +3.

Productivity Reporting and Analysis System

Oct '15 - Dec '15 Internship under Mehak Jain, L'Oreal and Dr. Vinay Arora, Thapar University L'Oreal(India), Baddi Automated the packaging management system of the factory. Analysis was done on the data generated from every assembly line to generate reports. System is being used by 300 factory workers.

RESEARCH EXPERIENCE

Interpretable Multimodal Deep Learning Jan '18 - June '19 Deep Learning Research intern under Prof. Dr. Marius Kloft, Dr. Antoine Ledent TU Kaiserslautern, Germany Proposed deep L_p norm Multimodal Fusion technique. A novel *Iterative Batch Normalization* technique was implemented to remove noise during inter and intra modality fusion. I achieved state of the art results on Multimodal Sentiment analysis dataset and Transcription Start Site prediction dataset. Poster presented in DLRLSS.

Researcher at Mindgarage, Kaiserslautern Jan '18 - June '19 Independent Research lab headed by Prof. Dr. Marcus Liwicki TU Kaiserslautern, Germany Competed in PAN bot and gender profiling task. We proposed novel semantic feature extraction technique for twitter bot classification task. Paper published in CLEF - 2019.

Arithmetic Word Problem Solving

Summer intern under Dr. Manish Shrivastava

Developed Deep Learning approach to solve arithmetic word problems. The operator (+ , - , * , /) between two numerical quantities was predicted through Sequence-to-Sequence learning models. State of the art results were obtained with an improvement of 7% over previous methods. Paper published in IJCNLP -2017.

Jan '17 - Dec'17 ISolveMath

May '16 - July '16

IIIT Hyderabad, India

May '17 - Nov '17

PUBLICATIONS

Mehta, P., Mishra, P., Athavale, V., Shrivastava, M. and Sharma, D., 2017. "Deep Neural Network based system for solving Arithmetic Word problems." *Proceedings of the IJCNLP 2017, System Demonstrations*, pp.65-68.

Kovács G., Balogh V., **Mehta, P.**, Shridhar, K., Liwicki M. 2019. "Author Profiling Using Semantic and Syntactic Features" *Accepted in CLEF - 2019*

TALKS AND PRESENTATIONS

l_p Norm Multiple Network Deep Learning - DLRL, Edmonton	July, 2019
Interpretebility in Multimodal Deep Learning - Luleå University of Technology	May, 2019
Recurrent Neural Networks - Deep Learning reading club by Dr. Marius Kloft	June, 2018
Transcription start site prediction - Max Delbrück Center for Molecular Medicine, Berlin	May, 2018
Deep learning on multimodal datasets - Thapar University	June, 2018
Deep Multimodal learning in Bioinformatics - Mindgarage, Kaiserslautern	March, 2018

SCHOLASTIC ACHIEVEMENTS

- Awarded the NRT (National Research Traineeship) fellowship funded by the NSF (National Science Foundation) at University of Rochester (2019)
- Reached final round of Adobe Research Women-in-Technology Scholarship (2017)
- Secured second position for presenting ISolveMath at **Project Women in Engineering Stand** affiliated with IEEE India North section (2017)
- Received certificate of merit and scholarship for securing third rank in class (2016)
- Awarded Merit scholarship for being in top 5% of class in sophomore year (2015-16)
- Awarded first prize in Hanumayamma Innovations Talent Hunt Hackathon (2016)
- Awarded second prize in Saturnalia Hackathon for finding solution towards smart city (2016)

CURRENT COURSEWORK

Advanced Computer vision, Random Processes, NRT-DESE - Graduate Training in Data-Enabled Research into Human Behavior and its Cognitive and Neural Mechanisms

Dec '16. Dec '17

Volunteer Work

Goswami Rampuri Bal Niketan School, Udaipur, India	
Taught underprivileged students computer science basics and communication skills	

EXTRACURRICULAR ACTIVITIES

Athletic Achievements	• Winner at Intra University Badminton Tournament organised at Thapar University (2016)
	 Served as the captain of women's Badminton team at Thapar University (2014-17) Running champion in 400m intra university tournament (2017)
	• Third position in Inter - Engineering College Badminton Tournament representing Thapar University (2014)
	• Represented Rajasthan at National level Badminton Tournament conducted by School Games Federation of India (2009)
	 Won Rajasthan State Badminton tournament for four consicutive years (2008 - 11) Third position at zonal level (West zone) Badminton tournament (2007)
Leadership	 Head and founder of Women in computing at Thapar University (2015-18). Captian of women's sport's team at Thapar University (2016-18). Head and founder of Student research council (2017)