Abhilasha Sancheti

Ph.D. in Computer Science
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Education

PhD. in Computer Science Aug 2019 – Present
University of Maryland, College Park (GPA: **4.00**/4.00)

Bachelor of Technology in Computer Science and Engineering Jul 2013 – May 2017
Indian Institute of Technology Guwahati (GPA: **9.66**/10.00)
Advisor: Prof. Benny George Kenkireth

Publications

Abhilasha Sancheti, Kundan Krishna, Balaji Vasan Srinivasan, and N. Anandhavelu, *Reinforced Rewards Framework for Text Style Transfer*, **ECIR, 2020**

Abhilasha Sancheti, Natwar Modani, Gautam Chaudhary, C. Priyadarshini, S. S. Moparthi, *Understanding Documents Through the Lens of Reader's Comments*, **CICLing, 2019**

Abhilasha Sancheti, Paridhi Maheshwari, Rajat Chaturvedi, Anish V. Monsy, Tanya Goyal, and Balaji Vasan Srinivasan, *Harvesting Knowledge from Cultural Heritage Artifacts in Museums of India*, **PAKDD, 2018**

Bhattacharya, Biswarup, Iftikhar Burhanuddin, **Abhilasha Sancheti**, and Kushal Satya, *Intent-aware Contextual Recommendation System* **DSBDA, ICDM 2017**

Patents

Method and System for Recommending Digital Content
A. Sancheti, I. A. Burhanuddin, Z. Wen (US Patent Application #16/691158 Filed November 21 2019)

Systems and methods for transferring stylistic expressions in machine translation of sequence data
A. Sancheti, N. Anandhavelu, B. V. Srinivasan (US Patent Application #16/407,704 Filed May 9 2019)

A method to build an enterprise-specific knowledge graph
B. V. Srinivasan, **A. Sancheti**, T. Goyal, R. Chaturvedi, P. Maheshwari, A. Monsy (US Patent Application #15928288 Filed March 22 2018)

Context-aware personal assistant for Analysts
I. A. Burhanuddin, B. Bhattacharya, **A. Sancheti**, K. Satya, S. Revankar (US Patent Application #15594394 Filed May 12 2017)

Experience

Adobe Research, Research Associate II *Jun 2017 – Jul 2019*
Adobe Research, Research Intern *May 2016 – Jul 2016*
Eklavya IIT Bombay, Intern *May 2015 – Jul 2015*

Teaching Experience

Undergraduate Courses Database Design (Spring-2020) and Introduction to Artificial Intelligence (Fall-2019)

Research Projects

Style Transfer for Brand Personality Published
Extended Neural Machine Translation and text style transfer approaches for evaluating the transfer between different levels of Excitement (a dimension of brand personality). Introduced additional loss functions to optimize style transfer approaches on the evaluation metrics. The long-term aim is to alter the level of multiple dimensions of brand personality simultaneously.

Online Diverse Recommendations Ongoing
The aim of this project is to provide personalized, diversified and summarized recommendations using online learning algorithms. It also deals with devising ways for evaluating the algorithms.

Understanding Documents Through Lens of Reader's Comments Published

Devised a way for associating comments to the segments of the document and classifying them into categories in a hierarchical way. This will help authors in improving the content in future documents and making it more engaging.

Harvesting Knowledge from Cultural Heritage Artifacts in Museums of India Published
Devised a method to build domain specific knowledge base from structured and unstructured data. Extracted triples are canonicalized to a standard taxonomy based on a combination of metric-based approach, taxonomy mapping and sequential clustering followed by an enrichment step.

Intent-Aware Contextual Recommendation System Published
Guide: Dr. Iftikhar Ahamath Burhanuddin, Adobe Research
Created an intelligent system which is a combination of frequency and content based recommendation systems and keeps user's intent in mind while providing the recommendations.

Pattern Avoidance in Permutations Bachelor Thesis
Guide: Prof. Benny George Kenkireth, Dept. of CSE, IIT Guwahati
Introduced a theorem and a conjecture to enumerate the distinct monotonically increasing or decreasing subsequence of length n+1 in a sequence of fixed length k.

Relevant Courses

Graduate Courses	Robotics, Human Computer Interaction, Interactive Data Visualization, Computational Linguistics-I
Seminar Courses	Neural Machine Translation
Undergraduate Courses	Linear Algebra, Probability Theory and Random Processes, Data Structures and Algorithms, Theory of Computation, Game Theory, Randomized Algorithms, Discrete Mathematics, Partial Differential Equations, Computer Vision using Machine Learning, Artificial Intelligence, Optimization Methods

Technical Skills

Programming Languages	Python, C++, Java, R
Operating System	Linux, Windows, Mac OS
Miscellaneous	Tensorflow, Pytorch, Bash, Git, SQL, LaTeX

Accomplishments

Received ECIR grant 2020
Among top 5 in Computer Science and Engineering, Class of 2017 2017
Dewang Mehta Excellence Award 2016
Certificate of Merit for being among the top 0.1% of successful candidates of AISSCE in Physics 2012

Positions of Responsibility

Literary Secretary, Hostel Management Committee Jul 2015 – May 2016
Event Organiser, Robotics Techniche 2014

Extra-Curricular Activities

Bagged Gold medal in Table Tennis sports week 2015
1st Position in Table Tennis Girl's week 2015
1st Position in Category II in the Annual All India Essay writing event conducted by United Nations Information Center for India and Bhutan. 2009