

# Abhilasha Sancheti

Ph.D. in Computer Science  
University of Maryland, College Park  
Maryland, USA - 20740

Email: sancheti@cs.umd.edu  
Website: abhilashasancheti.github.io  
Mobile: +1-3133319328

## EDUCATION

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<b>PhD. in Computer Science</b> University of Maryland, College Park (GPA: <b>4.00</b> /4.00)	Aug 2019 – Present
<b>Bachelor of Technology in Computer Science and Engineering</b> Indian Institute of Technology Guwahati (GPA: <b>9.66</b> /10.00) <i>Advisor:</i> Prof. Benny George Kenkireth	Jul 2013 – May 2017

## PUBLICATIONS

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Samarth Aggarwal, Rohin Garg, **Abhilasha Sancheti**, Bhanu Prakash Reddy Iftikhar Ahamath Burhanuddin, *Goal-driven Command Recommendations for Analysts*, **RecSys**, **2020**

**Abhilasha Sancheti**, Kundan Krishna, Balaji Vasani 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 Vasani 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

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**Expressive Text-to-Speech utilizing Contextual Word-level Style Tokens**  
S. Shekhar, **A. Sancheti**, G. Choudhary, E. Santhosh, S. Agarwal, R. Saxena (US Patent Filed July 21 2020)

**Intent-based Command Recommendation generation in an Analytic System**  
S. Aggarwal, R. Garg, B.P Guda, **A. Sancheti**, I. A. Burhanuddin (US Patent Filed July 14 2020)

**Method and System for Recommending Digital Content**  
**A. Sancheti**, I. A. Burhanuddin, Z. Wen (US Patent 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 Filed May 9 2019)

**Constructing enterprise-specific knowledge graphs**  
B. V. Srinivasan, R. Chaturvedi, T. Goyal, P. Maheshwari, A. Monsy, **A. Sancheti** (US Patent Application #15928288 Published Sep 26 2019)

**Context-aware personal assistant for Analysts**  
I. A. Burhanuddin, B. Bhattacharya, **A. Sancheti**, K. Satya, S. Revankar (US Patent Application #15594394 Published Nov 15 2018)

## EXPERIENCE

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<b>Adobe Research</b> , Research Associate II	Jun 2017 – Jul 2019
<b>Adobe Research</b> , Research Intern	May 2016 – Jul 2016
<b>Eklavya IIT Bombay</b> , Intern	May 2015 – Jul 2015

## TEACHING EXPERIENCE

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<b>Undergraduate Courses</b>	Database Design (Spring-2020) and Introduction to Artificial Intelligence (Fall-2019)
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## RESEARCH PROJECTS

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<b>Style Transfer for Brand Personality</b>	Published
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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

<b>Graduate Courses</b>	Robotics, Human Computer Interaction, Interactive Data Visualization, Computational Linguistics-I
<b>Seminar Courses</b>	Neural Machine Translation
<b>Undergraduate Courses</b>	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

<b>Programming Languages</b>	Python, C++, Java, R
<b>Operating System</b>	Linux, Windows, Mac OS
<b>Miscellaneous</b>	Tensorflow, Pytorch, Bash, Git, SQL, L <sup>A</sup> T <sub>E</sub> X

### ACCOMPLISHMENTS

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

### POSITIONS OF RESPONSIBILITY

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

### EXTRA-CURRICULAR ACTIVITIES

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