# Abhilasha Sancheti

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## EDUCATION

**University of Maryland, College Park, Maryland, USA**

*PhD. in Computer Science* — *Aug 2019 – Present*

**Indian Institute of Technology Guwahati, Guwahati, India**

*B.Tech Computer Science and Engineering; CGPA: 9.66* — *Jul 2013 – May 2017*

## EXPERIENCE

**Adobe Research**, Research Scientist/Engineer — *Jun 2017 – Jul 2019*

**Adobe Research**, Research Intern — *May 2016 – Jul 2016*

**Eklavya IIT Bombay**, Intern — *May 2015 – Jul 2015*

## PUBLICATIONS

**Reinforced Rewards Framework for Text Style Transfer**
**A. Sancheti**, K. Krishna, N. Anandhavelu, B. V. Srinivasan
*European Conference on Information Retrieval, 2020*

**Understandong Documents Through the Lens of Reader's Comments**
**A. Sancheti**, N Modani, G. Chaudhary, C Priyadarshini, S. S. Moparthi
*Conference on Computational Linguistics and Intelligent Text Processing, 2019.*

**Harvesting Knowledge from Cultural Heritage Artifacts in Museums of India**
**A. Sancheti**, P Maheshwari, R. Chaturvedi, A. V. Monsy, T Goyal., B. V. Srinivasan
*Pacific-Asia Conference on Knowledge Discovery and Data Mining. Springer, Cham, 2018.*

**Intent-Aware Contextual Recommendation System**
B. Bhattacharya, I. Burhanuddin, **A. Sancheti**, K. Satya
*Data Mining Workshops (ICDMW), 2017 IEEE International Conference on. IEEE, 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)

## COURSE PROJECTS

**End-to-End Cross-Lingual Summarization** — *Ongoing*
*Guide: Prof. Hal Daume III*
Building an end-to-end neural network model for employing cross-lingual summarization using multi-task learning.

**User Navigation Path Prediction for Data Pre-fetching** — *Ongoing*
*Guide: Prof. Leilani Battle*
Built a system which predicts the next user interaction on a visualization tool and pre-fectched the data which user might request in the future to provide better user experience and response time.

**Controlled Evaluation and Survey of Text Style Transfer Approaches** — *Ongoing*
*Guide: Prof. Marine Carpuat*
Carried out an extensive survey of various approaches proposed for text style transfer and employed controlled experiments between a couple of approaches.

## Other 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.

**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 pnline 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.

## Accomplishments

**Among top 4 in Computer Science and Engineering**, Batch of 2013              *2017*
**Dewang Mehta Excellence Award**                                               *2016*
**Certificate of Merit** for being among the top 0.1% of successful candidates of AISSCE in Physics    *2012*

## Relevant 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

**Languages**: C++, Python, Java, R, CSS, PHP, HTML
**Operating System**: Linux, Windows, Mac OS
**Miscellaneous**: Tensorflow, Bash, Git, SQL, LaTeX

## 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*