

Abhilasha Sancheti

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EDUCATION

University of Maryland, College Park, Maryland, USA

PhD. in Computer Science; GPA 4.00/4.00

Aug 2019 – Present

Indian Institute of Technology Guwahati, Guwahati, India

B.Tech Computer Science and Engineering; GPA: 9.66/10.00

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

Understanding Documents Through the Lens of Reader's Comments

A. Sancheti, N. Modani, G. Chaudhary, C. Priyadarshini, S. S. Moparthy

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

Guide: Prof. Leilani Battle

Built a system which predicts the next user interaction on a visualization tool and pre-fetched 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

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 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 .

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, L^AT_EX

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