Abhilasha Sancheti

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EDUCATION

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 – Present*
Adobe Research, Research Intern	*May 2016 – Jul 2016*
Eklavya IIT Bombay, Intern	*May 2015 – Jul 2015*

PUBLICATIONS

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

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)

PROJECTS

Style Transfer for Brand Personality   *Ongoing*
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   *Ongoing*
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.

Design and Implementation of a Compiler   *Apr 2016*

Guide: Prof. Arijit Sur, Dept. of CSE, IIT Guwahati
Designed a C like language and grammar for lexical, syntactic and semantic analysis. Used flex, yacc and C++ for the implementation to get target code in MIPS. Features such as type checking, coercion, arithmetic and logical operators, loops, if else were implemented.

Assembler, Linker and Loader *May 2015*
Guide: Prof. Santosh Biswas, Dept. of CSE, IIT Guwahati
Made an interpreter and a simulator to convert the self-encoded language into assembly language, linked it and loaded it into the specified memory locations.

Scilab Toolboxes *Jul 2015*
Summer Internship, Eklavya IIT Bombay
Developed Arduino and Image Processing toolboxes for Scilab (an open source alternative to MATLAB) under FOSSEE.

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*