

# Divij Bhatia

+1 (213)285-5188

divijbhatia2@gmail.com

http://divijbhatia.in

/bhatiadivij

/bhatiadivij

## EDUCATION

### **University of Southern California, Los Angeles, CA**

December 2020

USC Viterbi School of Engineering  
Master of Science, Computer Science  
CGPA: 3.50/4.00

### **Jaypee Institute of Information Technology, Noida, India**

June 2018

Bachelor of Technology, Computer Science & Engineering  
CGPA: 8.9/10.0

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, SQL

**Backend Technologies/Libraries:** Flask, Java Server Pages, Servlets, J2EE, Keras, TensorFlow, Scikit Learn

**Tools/Cloud Services:** Git, AWS-EC2, EBS, S3, RDS, Route53, SEO

## WORK EXPERIENCE

### **USC Information Sciences Institute, Marina del Rey, California**

May 2019 – Present

Student Worker

- Developed T2WML- a cell-based language to map tabular data to Wikidata records
- Collaborated with a frontend developer to build a web application based on Flask server for users to leverage T2WML
- Analyzed and optimized runtime processing of T2WML; reduced data processing delay by 10x

### **Niki.ai, Bengaluru, India**

May 2017 – July 2017

Technology Intern

- Integrated Unified Payments Interface (UPI) as a new and secured pay-through-chat service
- Implemented a recommender system to suggest shuttle boarding points to users; reduced time to book a shuttle by 20%
- Increased expressiveness of Niki chatbot by adding support for UTF-8 emoticons; improved user experience and engagement by 10%

## PROJECTS

### **AI Game Agent**

Feb 2019

- Implemented an AI agent based on minimax adversarial search algorithm with alpha-beta pruning for a zero-sum game

### **Scene Understanding for Visually Impaired People**

May 2018

- Conceptualized & created an app to narrate surroundings; harnessing the power of AI to detect places, objects & people
- Trained CNN models on MIT's Places365 and Colorferret datasets; achieved accuracies of 85.87%, 92% and 95.67% for place, age and gender detection modules respectively

### **Extractive Text Summarizer**

May 2017

- Developed an application to summarize a document by extracting important information using linguistic and statistical features viz; TF-ISF, sentence level cohesion, word vector embedding etc.
- Trained a multi-layered-perceptron on 10k news articles and achieved ROUGE-1, ROUGE-2 and ROUGE-L F-scores of 0.383, 0.226 and 0.275 respectively

### **Factoid Question Answering System**

December 2016

- Formulated an algorithm to understand a question and answer it using DBpedia knowledge base
- Employed SVM for detecting context of questions; converted text to a vector space model based on a set of lexical features viz; n-grams, word-shapes etc.

## PUBLICATIONS

### **T2WML: Table to Wikidata Mapping Language, K-Cap 2019**

November 2019

Authors: Pedro Szekely, Daniel Garijo, Divij Bhatia, Jiasheng Wu, Yixiang Yao and Jay Pujara

### **T2WML: A Cell-Based Language To Map Tables Into Wikidata Records, ISWC 2019**

October 2019

Authors: Pedro Szekely, Daniel Garijo, Jay Pujara, Divij Bhatia and Jiasheng Wu

### **Extractive Text Summarization Using Word Vector Embedding, ICMLDS 2017**

December 2017

Authors: Aditya Jain, Divij Bhatia, Manish K Thakur

## EXTRA-CURRICULAR ACTIVITIES

Advisor at Developer Student Club (formerly GDG) IIIT Noida

August 2017 - May 2018

Coordinator at Google Developers' Group IIIT Noida (GDG IIIT Noida)

August 2016 - July 2017

Coordinator at Knuth Programming Hub IIIT Noida

August 2016 - July 2017