

# Keval Morabia

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## EDUCATION

### UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN (UIUC)

*Master of Computer Science* (GPA: 4/4)

Coursework: Computer Vision, Machine Learning in NLP, Advanced Information Retrieval

Urbana, IL  
Aug 2019 - Dec 2020

### BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE (BITS), PILANI

*B.E. (Hons.) in Computer Science* (GPA: 9.72/10)

Electives: Artificial Intelligence, Machine Learning, Information Retrieval, Data Mining, Number Theory, Cryptography

Hyderabad, India  
Aug 2015 - May 2019

## RESEARCH EXPERIENCE

### UIUC - FORWARD DATA LAB

*Research Assistant*

- Worked with **Prof. Kevin Chang** on a novel **Visual Attention based Sequence Model** in **PyTorch** for Webpage Information Extraction (IE) by exploiting contextual information
- Created the largest public **labeled dataset of 7.7k** webpage screenshots for Product IE
- Created Attention Visualizations for interpretability of results
- Achieved an Accuracy of **94.5%** for product Price extraction (Improvement of **16%**). Submitted to **ECCV 2020**

Urbana, IL  
Aug 2019 - Mar 2020

### MICROSOFT RESEARCH

*Research Intern*

- Implemented **Graph Recurrent Neural Networks** from scratch in **TensorFlow** to **Learn Embeddings** for **300,000** entities in a heterogeneous graph
- Collaborated with a **team of 10** members to design a novel Deep Neural Net architecture
- Utilized embeddings for **recommending important messages** to a user posted in a channel on MSTEams application

Bengaluru, India  
Jan 2019 - Jul 2019

### BITS PILANI

*Research Assistant*

- Analyzed **Twitter Stream** for **Event Detection** by leveraging Wikipedia information
- Segmented tweets and hash-tags; applied Jarvis-Patrick clustering; and summarized newsworthy events
- Achieved a precision of **88.1%** (Improvement of **8%**)

Hyderabad, India  
Jan 2018 - Dec 2018

## PROFESSIONAL EXPERIENCE

### ARCESIUM INDIA PRIVATE LIMITED

*Software Engineering Intern*

- Enhanced **Expense Management System** by adding back-end services in **Java** to modify in **MS SQL Server** database
- Automated comparison of budgeted inputs with actual expenses on a UI implemented in **JavaScript**
- Wrote about **100** unit test cases in **JUnit** and **Mockito** and increased test coverage by **5%**
- Interacted with clients to cater to specific feature requirements

Hyderabad, India  
May 2018 - Jul 2018

## PUBLICATIONS

- Morabia, K., Bhanu Murthy, N. L., Malapati, A., & Samant, S. (2019, June). **SEDTWik: Segmentation-based Event Detection from Tweets using Wikipedia**. In Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL): Student Research Workshop (pp. 77-85) [Paper] [Code]

## INDEPENDENT PROJECTS

- Created **pyTweetCleaner**, a **Python** module for cleaning and parsing of **Twitter** JSON data
- Built an application in **JavaFX** for **Frequent Patterns & Association Rule Mining** using Apriori algorithm

## SKILLS

- **Programming:** Java, Python, C, SQL, HTML, CSS, JavaScript, LaTeX
- **Technical:** PyTorch, TensorFlow, GIT, Java Swing, JavaFX, JUnit, Mockito, Spring Framework, My Batis

## LEADERSHIP AND HONORS

- Awarded **Merit Scholarship** (Top 1% out of 700 undergrad students) Aug 2015 - May 2019
- Organized cultural dance events as **President** of **150**-membered Gujarati Association - BITS Pilani, Hyderabad; attended by over **1000** students; raised **INR 30,000** fund Jul 2017 - May 2018