

Keval Morabia

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN (UIUC)

Master of Computer Science (GPA: 4/4) w/ specialization in Artificial Intelligence
Coursework: Computer Vision, Advanced Information Retrieval, Machine Learning in NLP

Urbana, IL
Aug 2019 - Dec 2020

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE (BITS), PILANI

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

Hyderabad, India
Aug 2015 - May 2019

EXPERIENCE

AMAZON WEB SERVICES (AWS)

Software Development Engineer Intern

- Deployed **Java** APIs to **AWS** cloud for providing preview of tasks to be performed by technicians in Amazon data centers
- Parsed BPMN Workflows extracted from **Amazon Dynamo DB** to identify Linear Workflows
- Tested code with Unit, Integration and Load testing with **JUnit**, **Mockito**, and **TestNG**

Greater Seattle Area, WA
May 2020 - Aug 2020

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 images** for Product IE
- Achieved an Accuracy of **94.5%** for product Price extraction (Improvement of **16%**) and interpreted Attention Visualizations

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** to design a novel Deep Neural Net architecture for **recommending messages** in MSTeams
- Outperformed **Graph Convolutional Networks** on **5** benchmark datasets for rating prediction and ranking tasks

Bengaluru, India
Jan 2019 - Jul 2019

BITS PILANI

Research Assistant

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

Hyderabad, India
Jan 2018 - Dec 2018

ARCESIUM INDIA PRIVATE LIMITED

Software Engineer 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%**

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]

PROJECTS

- Attention-based Joint Detection of Object and Semantic Part in **PyTorch** [arXiv] [Code]
- Built an application in **JavaFX** for **Frequent Patterns & Association Rule Mining** using Apriori algorithm [Code]

SKILLS

- **Programming Languages:** Python, Java, C, SQL, HTML, CSS, JavaScript, LaTeX
- **Other Technologies:** PyTorch, TensorFlow, AWS, GIT, JUnit, Mockito, JavaFX

LEADERSHIP AND HONORS

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

Aug 2015 - May 2019
Jul 2017 - May 2018