Keval Morabia

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN (UIUC) — Urbana, IL
Master of Computer Science (GPA: N.A.) — Aug 2019 - Dec 2020
Coursework: Natural Language Processing, Advanced Information Retrieval

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE (BITS), PILANI — Hyderabad, India
B.E. (Hons.) in Computer Science (CGPA: 9.72/10) — Aug 2015 - May 2019
Electives: Artificial Intelligence, Machine Learning, Information Retrieval, Data Mining, Number Theory, Cryptography

RESEARCH EXPERIENCE

UIUC - FORWARD DATA LAB — Urbana, IL
Research Assistant — Aug 2019 - Present
• Working on Web Information Extraction with **Prof. Kevin Chang**; funded by NSF and IBM
• Implemented a novel model in **PyTorch** to extract product details from a web page using **Computer Vision** based Web Object Extraction
• Created a **labeled dataset** for extracting price, image and title information of products from a web page

MICROSOFT RESEARCH — Bengaluru, India
Research Intern — Jan 2019 - Jul 2019
• 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

BITS PILANI — Hyderabad, India
Research Assistant — Jan 2018 - Dec 2018
• Analyzed **Twitter Stream** for **Event Detection** by leveraging Wikipedia
• Segmented tweets and hash-tags; applied Jarvis-Patrick clustering; summarized newsworthy events in **Python**
• Achieved a precision of **88.12%** (Improvement of **8%**)

PROFESSIONAL EXPERIENCE

ARCESIUM INDIA PRIVATE LIMITED — Hyderabad, India
Software Engineering Intern — May 2018 - Jul 2018
• 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

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:** TensorFlow, GIT, PyTorch, 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