Keval Morabia

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN (UIUC)

Urbana, IL

Masters degree in Computer Science (GPA: 4/4) with specialization in Artificial Intelligence

Aug 2019 - Dec 2020

• Coursework: Computer Vision, Advanced Information Retrieval, Machine Learning in NLP, Building Autonomous Vehicles

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE (BITS), PILANI

Hyderabad, India

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

Aug 2015 - May 2019

EXPERIENCE

AMAZON WEB SERVICES (AWS)

Greater Seattle Area, WA

May 2020 - Aug 2020

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 complex BPMN Workflows extracted from Amazon Dynamo DB to identify expected order of task execution

UIUC - FORWARD DATA LAB

Urbana, II

Research Assistant with Prof. Kevin Chang

Aug 2019 - Mar 2020

- Implemented a novel Visual Attention-based Model in PyTorch for webpage Info. Extraction (IE) [Submitting to CVPR 2021]
- Exploited contextual information using visual features of ordered web elements extracted using Resnet18
- Created the largest public labeled dataset of 7.7k webpage images for Product IE
- Achieved an Accuracy of 94.5% for product Price extraction (11% above Fast-RCNN) and interpreted Attention Visualizations

MICROSOFT RESEARCH

Bengaluru, India

Research Intern
Jan 2019 - Jul 2019
• Implemented Graph RNNs in TensorFlow to Learn Embeddings for 300k entities in a heterogeneous graph

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 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

BITS PILANI

Hyderabad, India

Jan 2018 - Dec 2018

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

ARCESIUM INDIA PVT. LTD.

Hyderabad, India

Software Engineer 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

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]

PROJECT HIGHLIGHTS

Attention-based Joint Detection of Object and Semantic Part [arXiv:2007.02419] [Code]

Feb 2020 - May 2020

- Implemented a novel model for simultaneous Object and Part detection by combining 2 Faster-RCNN models in PyTorch
- Applied Attention-based feature fusion to learn enhanced representation for Object and Part proposals
- Improved mean Average Precision for Objects and their Parts on PASCAL-Part Dataset

SKILLS

- Programming: Python, Java, C. LaTex, SQL, HTML, CSS, JavaScript
- Other Technologies: PyTorch, TensorFlow, Scikit-learn, GIT, JUnit, Mockito, JavaFX
- AWS Services: EC2, Lambda, DynamoDB, S3, API Gateway, IAM, Cloudwatch, CloudFormation

LEADERSHIP AND HONORS

• Awarded Merit Scholarship (Top 1% out of 700 students at BITS Pilani, Hyderabad)

- Aug 2015 May 2019
- Organized cultural dance events as **President** of **150**-membered Gujarati Association BITS Pilani,

Jul 2017 - May 2018

Hyderabad; attended by over 1000 students; raised INR 30k fund