Abhishek Nilesh Shah

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Experience

IBM Watson
New York, New York
Software Engineer
Jun '17 – Present
- Implemented microservices in "Show Recommendations" feature hosted as a part of Watson Assistant hosted on IBM Cloud to enable users to bootstrap conversational agents by searching chat logs.
- Implemented tools to support content management and curation across 6 languages and 4 industrial domains hosted as part of Content Catalog in Watson Assistant.
- Implemented integration of contextualized embeddings into AMR Parsing for enhancing the Stack LSTMs.

IBM Watson
Austin, Texas
Software Engineer Intern
Jun '16 – Aug '16
- Implemented a system for analyzing risks by comparing performance of two relation extraction systems of Watson and proposed two new hybrid models for the delivery team.
- Designed backend application for Enhanced Information Retrieval Engine for Watson Practitioner Assistant using Bluemix services.

Hewlett-Packard (HP)
Bangalore, India
Research and Development Engineer
Aug '14 – Jun '15
- Implemented a proof of concept for task of developing independent test framework for firmware code of printers using C# and CIL, scaling it to a mechanism that enabled to perform more than 1000 unit tests.
- Managed SNMP services of the System Framework of large scale enterprise Laserjet HP Printers.

Information Retrieval Lab, DA-IICT
Gandhinagar, India
Research Assistant
May '13 – May '14
- Designed, implemented and analyzed Temporal Information Retrieval Engine and Temporal Intent Classification system for NTCIR Workshop. (The classification system showed 2nd best results.)
- Implemented test framework for data extraction to analyze language understanding of non-native user(thesis).

CheckDeck
Gandhinagar, India
Software Engineer Intern
May '12 – Jun '12
- Designed and implemented search module of News Retrieval System as a part of the contribution in initial phase of the startup using Apache Solr Framework tested on 200-300 queries.
- Implemented clustering module of news that was shown as categories of news in the initial version of application.

Education

New York University (NYU), Courant Institute of Mathematical Sciences
New York, New York
M.S., Computer Science (3.89/4.0)
Sep '15 – May '17
Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)
Gandhinagar, India
B.Tech., Information and Communication Technology (8.08/10.0)
2010–2014

Publications

- Tahira Naseem, **Abhishek Shah** et. al.: Transition-Based AMR Parsing with BERT, Attention and Reinforcement Learning, Paper accepted at ACL 2019 (Print coming soon)
- Neil Mallinar, **Abhishek Shah** et. al.: Bootstrapping Conversational Agents With Weak Supervision, Paper accepted at IAAI hosted with AAAI, 2019 (Co-presented at AAAI, Hawaii, US, 2019) [pdf]
- **Abhishek Shah**, Dharak Shah, Prasenjit Majumder: Andd7 @ NTCIR-11 Temporal Information Access Task, NTCIR, Japan, 2014 [pdf]

Patents

- T.K. Ho, **Abhishek Shah** et. al.: Intent Authoring Using Weak Supervision and Co-Training for Automated Response Systems [P201807796] (Filed 2018)
- **Abhishek Shah**, Tin Kam Ho: A Method for Creating Compact Example Sets for Intent Classification [P201807725] (Filed 2018)
- **Abhishek Shah**, Tin Kam Ho: Class balancing methods for Intent Authoring using Search [P201807796] (Filed 2018)

Skills

Programming Languages: Python, C++, Java, C#, , C, Scala, Javascript, Groovy
Frameworks and Libraries: PyTorch, DyNet, Spacy, ElasticSearch, Apache Kafka, MongoDB, Protobuf, Snorkel, Pandas, Scikit-Learn, Mono-Cecil, IBM Deep Learning as a Service, IBM Cloud Object Storage, IBM Cloud Functions, Kubernetes, ScyllaDB, PostgreSQL
Tools and IDEs: Vim, Tmux, PyCharm, Git, IntelliJ, Visual Studio, Jenkins