SHUBHAM GONDANE

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SUMMARY

Computer science graduate student with a passion for machine learning, likes to take initiative to tackle hard challenges , with research experience building machine learning systems. Seeking opportunities where I can leverage my skills and experience and contribute to the organization in a collaborative and learning environment.

EDUCATION

Master of Science in Computer Science   **GPA: 3.8/4.0**
Arizona State University, Tempe, Arizona   Graduating December 2019
Bachelor of Technology in Computer Engineering   **GPA: 3.5/4.0**
Vishwakarma Institute of Technology, Pune, India   August 2013 - May 2017

SKILLS

- Programming: Python, SQL, Java, Linux, R
- Frameworks and tools: MongoDB, AWS, Spark, Keras, Pytorch, TensorFlow, Git, Scikit-learn, NLTK
- Certifications: Deep Learning Specialization by deeplearning.ai

WORK EXPERIENCE

Data Science Aide, Arizona State University   February 2019 - current
- Implemented various Text mining models (i.e., TF-IDF, LSA, GloVe, Doc2Vec, LDA, PLSA, BERT) to analyze content novelty on Reddit.
- Developed a semantic network-based system to investigate content creativity. This research has been accepted by a premium international conference ICIS in the field of Information Systems and will be presented in Germany in December.

Graduate Research Assistant, Arizona State University   January 2019 – October 2019
MS Thesis successfully defended on November 5th
- Developed a generalizable system using BERT a language model to identify personal health experience mention in tweets across different health domains. The system came in second out of 19 submissions at SMM4H workshop at ACL 2019 conference.
- Developed a deep learning system using language models and transfer learning to automatically classify and perform named entity extraction of adverse drug reaction mention in tweets.

Research Assistant, Arizona State University   December 2018 – April 2019
- Designed a machine learning system for a research project to study the Impact of Impression Management on Academic Program Reputations on social media.
- Designed a data processing pipeline for data collection, preprocessing, and feature engineering. Improved four different machine learning SVM models with accuracies of 83 to 91 percent.

ACADEMIC PROJECTS

Co-reference resolution in Electronic Health Records   February 2018 – April 2018
- Designed a model to find co-referring concepts in medical reports using natural language processing.
- Developed a pipeline to annotate concepts using off-the-shelf tools and libraries and form concept pairs.
- Implemented feature engineering to extract important features to work with an SVM classifier to identify valid co-referring pairs. Developed an algorithm for combining the co-referent pairs into a valid co-referring chain.

Image recognition as a Service on AWS   February 2018 – April 2018
- Developed an elastic application on AWS for image recognition using a deep learning model. Developed a PHP application to handle the end-user interaction.
- Developed Java programs to interact with and provide cross interaction between different AWS resources like EC2, S3, SQS, and CloudWatch to manage the data flow. Implemented a load balancing algorithm to automatically scale in and out on demand and in a cost-effective manner.
- Reduced time overhead by 2 minutes by modeling EC2 instance metrics data.

Geospatial Hotspot Analysis   February 2018 – April 2018
- Implemented a Hadoop cluster on AWS to execute geospatial queries like Range, Join, KNN using SparkSQL.
- Performed Operational tests by varying load and cluster configurations.

PUBLICATIONS

Gondane, Shubham. "Neural Network to identify personal health experience mention in tweets using BioBERT embeddings."
In Proceedings of the Fourth Social Media Mining for Health Applications (# SMM4H) Workshop & Shared Task, pp. 110-113.
2019.