Teja Kanchinadam

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EDUCATION

University of North Carolina, Charlotte, *Charlotte, NC*
Master of Computer Science *Aug. 2015 – Dec. 2016*

WORK EXPERIENCE

American Family Insurance, *Madison, WI*
Data Scientist (Machine Learning Research Team) *May. 2017 – .*

- Technical lead of a project where the goal is to use active learning to automatically tag and/or assert concepts in unstructured text documents.
- Designed and created several novel algorithms for active learning on text which utilizes human annotations and feedback into account.
- Used Graph Neural Networks techniques to train a model that learns the satisfaction score (customer's response to call survey) based on automated call transcripts.
- Designed and created new novel algorithms that uses bayesian statistical techniques to efficiently learn models that produces recommendations for customers based on what similar customers have.
- Used language models to train classifiers that learns the sentiment of user's comments in corporate social media environments.
- Mentored several interns on: Active Learning via clustering, Entity Recognition, Multi-label classification, unsupervised text summarization.

UNC Charlotte, *Charlotte, NC*
Research Assistant *Aug. 2015 – Dec. 2016*

- Worked with Dr. Jamie Payton as a lead researcher and software developer on several projects that focused on detecting and predicting activities using sensor-enabled wearable devices and machine learning.
- Published a thesis on predicting stress using signals from wearable devices via semi-supervised learning, which allows for learning an underlying model of the phenomenon from a small collection of manually labeled training data.

Technicolor Research, *Los Altos, CA*
Research Intern *May. 2016 – Aug. 2016*

- Developed a crowd sensing application which extracts insights about user's viewing behavior on Android TV platform such as clicks, viewing patterns, network logs and automated the process using machine learning aka multi-task learning.

Cognizant Technology Solutions, *Kolkata, India*
Software Engineer *Nov. 2013 – June. 2015*

- Primarily responsible for creating server side architectures using software design patterns, worked extensively on Python and Java.

PUBLICATIONS

- *Using Discriminative Graphical Models for Insurance Recommender Systems. In 2018 17th IEEE International Conference on Machine Learning and Applications (ICMLA), pp. 421-428. IEEE, 2018.*
- *Discovering Temporal Patterns from Insurance Interaction Data. Association for the Advancement of Artificial Intelligence (AAAI). IEEE, 2018.*
- *A framework for the use of wearables to enable study of stress. Master's Thesis. The University of North Carolina at Charlotte, 2016.*
- *Task-optimized Word Embeddings for Text Classification Representations (Journal) - Frontiers 2020*
- *Designing and Deploying Insurance Recommender Systems Using Machine Learning (Journal) - WIRE 2020*
- *Predicting satisfaction after customer's phone interactions: A GNN approach (submitted)*

PATENT

- *Hamidi-Rad, Shahab, Kent Lyons, Akshay Pushparaja, Y. A. O. Zijun, Gaurav Agarwal, Alan Zhang, Teja Kanchinadam, & Rushil Khurana. "Determining full-body pose for a virtual reality environment." U.S. Patent Application No. 15/985,783.*
- *Hamidi-Rad, Shahab, Kent Lyons, Akshay Pushparaja, Y. A. O. Zijun, Gaurav Agarwal, Alan Zhang, Teja Kanchinadam, & Rushil Khurana. "User Interface for Sharing Virtual Content" U.S. Patent Provisional Application No. PU170019*

TECHNICAL ACTIVITIES

- *Sub-reviewer for KDD (2019), Anchorage, AL*
- *Co-organizer at SIAM CSE (2019), Spokane, WA*
- *Invited Speaker at SIAM CSE (2019), Spokane, WA*
- *PC member for SIAM SDM (2018), San Diego, CA*

POSTERS

- *Graduate Student Poster (2016), Charlotte, NC on Activity Recognition via Machine Learning.*
- *SIAM SDM (2018), San Diego, CA on using Active learning to train machine learning models.*
- *Midwest ML Symposium (2018), Chicago, IL on Sentiment Analysis on social media comments.*
- *Insurance Analytics Forum (2018), Madison, WI on Bayesian Networks and Recommender systems.*
- *American Family - UW Madison event (2019), Madison, WI on Relative Attribute Learning using Graph Neural Networks*
- *Midwest ML Symposium (2019), Madison, WI on optimizing Active Learning for text using rationale.*

SKILLS & OTHERS

Programming: Python, Java, C, C++, JavaScript, SQL, PHP, LaTeX
Machine Learning: Tensorflow, PyTorch, Keras, Scikit-Learn
Big Data: Hadoop, Beeline, PySpark, AWS
Others: Angular, Android, Flask, ElasticSearch, Solr, CoreNLP, Spacy, Scrapy, MySQL, MongoDB