Pranoy Kovuri

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EDUCATION

Texas A&M University, College Station, TX*, MS* Computer Science*,* **GPA: 4/4** ***Aug 17-Current***
NIT Warangal, India, B.Tech. Electronics and Communication*,* **GPA: 3.8/4.** ***Jun 11-May 15***
Udacity, Deep Learning Nanodegree Foundation ***Jan 17-Jul 17***

TECHNICAL SKILLS

Languages: Python, C++, C, Matlab, Java, Assembly, Markdown, Ruby, Javascript
Libraries: Tensorflow, Pytorch, Pandas, Numpy, SciKit, Keras, OpenCV
Tools: Jupyter, Pycharm, Perforce, Git, Code Collaborator, CodeBlocks, Visual Studio

PROFESSIONAL EXPERIENCE

- *Artificial Intelligence Research Intern*, **Philips Research HealthTech, Cambridge** ***May 18-Current***
  - Created a new dataset manually annotating Radiology Reports measuring inter-annotator agree on various degrees
  - Developed and Tested Baseline models for NER and Relation Extraction using CRF, LSTM, LSTM-CRF
  - **Currently** working on joint modelling developing End-to-End Models based on Tree LSTM for publishing in NAACL 2019
- *Research Assistant*, **NLU and Deep Learning, Texas A&M University** ***Sept 17-Current***
  - Developing unsupervised and semi-supervised neural architectures for joint relation extraction and NER targeting NAACL 2019
  - Modelled and Tested Sequential Architectures for Biomedical and Sensor Time Series Data
  - Improved performance of XGBoost models on ICU readmission prediction by incorporating text based features from clinical notes
- *Teaching Assistant,* **Sr Capstone Design, Texas A&M University** ***Jan 18-May 18***
  - Responsible for supervising the various projects Undergraduates design and develop
- *Student Assistant,* **Natural Language Processing, Texas A&M University** ***Sept 17-Dec 17***
- *Software Developer*, **Qualcomm(India)** ***Jun 15-Jun 17***
  - Implemented real time features in various Wi-Fi modules and solved customer critical issues to develop requirements for OEMs. Provided software support OEM's product launches while in China
- *Software Internship*, **Qualcomm(India)** ***May 14- Jul 14***
  - Enhanced and developed software solution for Samsung Group Play application

PROJECTS

- The SmartChatBot
  - Developing a Q/A system which takes documents as inputs and is capable of answering questions about that document.
  - Worked on End-to-End Memory Networks and Dynamic Memory Network based model using LSTMs and GRUs
- Social Networking Service Website for CSE Department
  - Developed a website for the department of Computer Science and Engineering at Texas A&M University, for enhancing the communication between the student organizations and the students using Ruby on Rails
- Implemented Classic Machine Learning Models using only Numpy
  - Implemented *Naive Bayes classifier* and *KNN classifier* for digit recognition.
  - Implemented *Logistic Regression*, Locally *Weighted Logistic Regression* and *Perceptron algorithm* for Binary classification.
  - Implemented *Gaussian Mixture Models* for clustering
- Sentiment Analysis on IMDb movie review database
  - Developed and experimented different neural network architectures for Sentiment Classification for movie reviews, categorizing them as positive and negative sentiment based on the movie review
- Anti-Forensics of JPEG Image Compression
  - Designed and developed Anti-forensic techniques in Image Compression, to avoid digital footprints of techniques such as DCT and DWT on JPEG images.
  - Designed neural networks for estimating primary quantization matrix in double compressed images
- Helping Heart Failure Patients survive – MIT Project
  - Designing a Solr based search system for selecting Echo Cardiogram Notes of Patients for CHF with Sepsis
  - Creating a pipeline for selecting Echocardiogram notes for Congestive Heart Failure patients and classifying the note for various degrees of Fluid resuscitation

KEY COURSES

- **Academic:** Machine Learning, Artificial Intelligence, Software Engineering, Natural Language Processing, Algorithms, Data Visualization, Maths of Deep Learning, Neural Networks
- **Software:** Problem Solving and Computer Programming in C++, Data Structures, Object Oriented Programming
- **MOOCs:** Algorithms Specialization Coursera Stanford**,** Deep Learning Nano Degree Udacity, Machine Learning Coursera Stanford