Pranoy Kovuri

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EDUCATION

Texas A&M University, College Station, TX, *Masters* in Computer Science, GPA: 4/4   Aug 17 – Jul 19
NIT Warangal, India, **Bachelors** in Electronics and Communication, GPA: 3.8/4   Jun 11 – May 15
Udacity, Deep Learning Nanodegree Foundation   Jan 17 – Jul 17

SKILLS

Languages: Python, C++, C, Matlab, Java, Assembly, Markdown, Ruby, JavaScript
Libraries: TensorFlow, Pytorch, Pandas, NumPy, SciKit, Keras, OpenCV, PostgreSQL
Tools: Jupyter, PyCharm, Perforce, Git, Code Collaborator, Code Blocks, Visual Studio

EXPERIENCE

- *Summer Research Intern*, **Reinforcement Learning, Texas A&M University**   Apr 19 – Jul 19
  - Developing and testing Q-Learning, DDQN, DDPG and IRL based algorithms for a novel research problem
  - Designing a tailored gym environment for a zebra crossing scenario
- *Research Assistant*, **NLU and Deep Learning, Texas A&M University**   Sep 17 – Jul 19
  - Developed unsupervised and semi-supervised neural architectures for joint Relation Extraction and NER
  - 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
- *Artificial Intelligence Research Intern*, **Philips Research HealthTech**   May 18 – Aug 18
  - Created a new dataset by manually annotating Radiology Reports measuring inter-annotator agreement
  - Developed and tested Baseline models for NER and Relation Extraction using CRF, LSTM, LSTM-CRF
  - Modelled and tested end-to-end models based on tree LSTM and sequential bi-LSTM
- *Teaching Assistant,* **Senior Capstone Design, Texas A&M University**   Jan 18 – May 18
  - Responsible for supervising of design and development phase for senior year undergraduate projects
- *Student Assistant,* **Natural Language Processing, Texas A&M University**   Sep 17 – Dec 17
- *Software Developer*, **Qualcomm, India**   Jun 15 – Jun 17
  - Implemented real time features in Wi-Fi subsystems and solved critical customer issues to develop requirements for OEMs.
  - Provided onsite software support for OEM's product launches in Qualcomm China
- *Software Intern*, **Qualcomm, India**   May 14 – Jul 14
  - Enhanced and developed software solution for Samsung Group Play application

PROJECTS

- Distributed Consensus Raft Algorithm
  - Implemented and open sourced a platform for predefined Distributed Consensus algorithm - Raft
  - Tested the system using various functional and unit tests
- The SmartChatBot
  - Developed 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
- CSE-Dashboard: Social Networking Service Website
  - Developed a website for the department of Computer Science and Engineering at Texas A&M University, for enhancing the communication between student organizations and students
- 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, Perceptron, and Gaussian Mixture Models
- Sentiment Analysis on IMDb movie review database
  - Developed and experimented different neural network architectures for classifying sentiments as positive and negative sentiment based on the movie review
- Anti-Forensics of JPEG Image Compression
  - Designed and developed neural network based Anti-forensic techniques in image compression to avoid digital footprints of techniques such as DCT and DWT on JPEG images
- Helping Heart Failure Patients survive – MIT LCP Project
  - Designing Solr based search system for selecting Echocardiogram notes of patients for CHF with Sepsis
  - Creating a pipeline for selecting Echocardiogram notes for Congestive heart failure patients and classifying the notes for various degrees of fluid resuscitation

COURSES AND ONLINE EDUCATION

- **Graduate and Advanced:** CS 294 Deep Reinforcement Learning, CS 224N Machine Learning, CS188.1x Artificial Intelligence, CS 224N Natural Language Processing, Algorithms, Data Visualization, Mathematics of Deep Learning, Neural Networks, Software Engineering, Distributed Systems and Cloud Computing
- **Undergraduate:** Problem Solving & Computer Programming in C++, Object Oriented Programming, Data Structures
- **MOOCs:** Algorithms Specialization Coursera Stanford, Machine Learning Coursera Stanford