

ARNAV KUNDU

(979) 739-7337 • arnav1993k@tamu.edu • www.linkedin.com/in/arnavkundu-tamu

SUMMARY

Graduate student at Texas A&M University with experience in machine learning, data science and information retrieval looking for full time employment starting summer 2019

EMPLOYMENT

Apple Inc.

Machine Learning and Data Science Intern

May 2018 – Present

- Researched and developed deep learning solutions for predictive anomaly detection, forecasting, clustering and correlating millions of rows of time-series data in minutes against unsupervised methods which take hours (**3 patents**)
- Reduced the training time of deep neural network models by 80% by implementing distributed Tensor-Flow framework on Apple infrastructure
- Facilitated use of machine learning for SREs by developing an automated platform to train and deploy machine learning models on a given stream or set of data, without having to code
- Reduced model deployment time by developing a generic machine learning API on Flask that helps to train machine learning models on cloud

Citigroup Inc.

Data Scientist

July 2015 – July 2017

- Increased customer base by 3% every month by analyzing and building statistical models on market behavior and social trends using semantic analysis on social network data
- Composed marketing campaigns for Citibank Thailand by applying time-series forecasting and classification algorithms like SVM and regression on spend patterns and other customer demographics
- Designed and maintained a recommendation engine and campaign management tool with online dash-boarding and customer level performance tracking to update marketing teams with their portfolios
- Awarded the ARC Award in 2016 for developing better campaigns to increase campaign conversion rate by 12% in the last quarter of 2016

PROJECTS

Anomaly detection in dense network using Deep Neural Networks (Thesis Project)

- Developing a cyber-threat monitoring system using a deep neural network based anomaly detection system.

Appliance monitoring system using Deep Neural Networks (Selected for IEEE Conference)

- Developed a CNN and LSTM based algorithm to monitor appliances in a house from utility meter data

Drillbotics (3rd place across Texas)

- Optimized speed by 40% by detecting materials in the way of an oil rig drilling bot using machine learning.

Bitcoin Price Forecast

- Developed a mechanism to predict Bitcoin prices using Recurrent Neural Networks with an accuracy of 90%

SKILLS

Machine Learning - Classification and Regression, Clustering, Time-series, dimensionality reduction, Neural Networks, Tensor-Flow, Keras, CoreML, Distributed Training and model deployment pipelines

Programming languages – C, Java, Python (*numpy, pandas, scikit-learn, scipy, nltk*), Cassandra, SQL, MATLAB, Kafka

Misc - Google Cloud, Tableau, ETL design, A/B Testing

EDUCATION

Texas A&M University, College Station, TX

May -2019

Masters of Electrical and Computer Engineering (Information Sciences), GPA- 3.6

LEADERSHIP AND EXTRA CIRRICULAR ACTIVITIES

Vice President of Indian Graduate Student Association, Texas A&M University.

Captain – College Badminton Team, NITK Surathkal