PRIYANK ARORA

priyankarora91@gmail.com ✱ 682-375-9426 ✱ linkedin.com/in/er-priyank-arora ✱ github.com/pyk18

EDUCATION

Master of Science in Computer Science (Thesis) **GPA:3.75/4.0**
University of Texas at Arlington, Texas **MAY 2019**
Thesis: "Exploratory Analysis of US Political Tweets"
Courses: Neural Networks, Data Mining, Data Modeling and Analysis Technique, Design and Analysis of Algorithm, Cloud Computing, DBMS Modeling and Implementation, Artificial Intelligence, Operating Systems, Discrete Mathematics

Bachelor of Technology(Hons.) in Electronics and Communication **Percentage: 78.12/100**
Maharshi Dayanand University, Rohtak, India **MAY 2012**

SKILLS

Languages:	Python, C, C++, SQL, Javascript
Databases:	MySQL, SQLite3, PostgreSQL, MongoDB, Redis, Memcache, AWS S3, AWS EC2
Libraries:	Tensorflow, Flask, Tkinter,Seaborn, Scikit Learn, Tweepy, Google Cloud, IBM Boto3, Pandas
Software and Tools:	Pycharm, Jupyter, Git, SVN, d3-js, Microsoft Office, Oracle Virtualbox, Eclipse SDK

EXPERIENCE

Graduate Teaching Assistant (GTA)
Department of Computer Science, University of Texas at Arlington, Arlington, Texas **SEP 2018 - Present**

- Working closely with graduate and undergraduate students of the course and solving their concerns related to the class
- Demonstrate algorithms and problems with the help of python. Helping in smooth operation through the semester
- GTA for Data Mining and Circuit Signal courses of Computer Science Department

Software Engineer
TeamF1 Networks Pvt. Ltd., Hyderabad, India **FEB 2015 - DEC 2016**

- Localization: Support of multi-language option in D-Link Wireless Controller expanding the reach to 1 Billion new customers
- Startup Wizard: Novel software design, improves performance of DWC by 35%
- Software Define Network: Implemented Southbound API for D-Link devices using OpenFlow RFC-7426 standard with C++

Contract Engineer / Software Development Intern
Xilinx India Pvt. Ltd., Hyderabad, India **AUG 2013 - FEB 2015**

- Software application to demonstrate the PCIe Root Complex, and capability of Zynq ZC 702 SoC
- Test, debugging, and packaging Board Support Package(BSP) using Petalinux and Vivado SDK for Zynq ZC 702
- DRM/KMS framework integration: Integration of Open Source DRM/KMS framework into Xilinx's Linux Kernel

PROJECTS

- **Natural Language Processing**
  Web scraping: Vital political contacts(name,gender,state,party,social network handles) of US Senate and Congress
  Tweet Analyser: Comprehensive NLP analysis provides sentiment, frames annotate, and facts analysis for tweets
  Twitter CryptoBot: In 24 Hr. Hackathon, Demonstrated autonomous twitter bot that post prediction of bitcoin price using CoinAPI.io, working on LSTM model for predictions
- **Data Mining and Algorithms**
  K-Means: With Numpy, Implemented a k-mean algorithm model with 90% accuracy on AT&T face and NBA Dataset
  KNN: Using Numpy, Implemented a KNN model with 92.25% accuracy over handwritten letters and NBA dataset
  Linear Regression: Using Numpy, Implemented linear regression model with 91.25% over handwritten letters dataset
  SVM: Using Scikit Learn, achieved the model accuracy of 91.11% over the handwritten letter dataset
  Hands-on experience: Association Rule Mining, Decision Trees, Random Forest, PCA and SVD
- **Cloud Computing**
  IBM Bluemix: Python Flask app that shows/update/delete student records and image using IBM DB and COS instances
  Google Cloud Platform: Python Flask application to perform SQL queries and applying K-Means Algorithm and visualize relationship between ticket fare and survival of Titanic Passengers. Worked on text analysis using Google NLP API.
  AWS: Using elasticache (Redis server) improve response time of the cloud application by 60% for repeated queries.
  Azure: Configure and Demonstrate the Increase in instances of cloud application when tested with JMeter Analyzer
- **Neural Networks**
  Widrow-Hoff learning and Adaptive filters: ADALINE neural network model for predicts the price change of stock price.
  Single Neuron Decision Boundary: Using Numpy, Linear Decision boundary to classify randomly generated pts 2D space
  Convolutional Neural Network: Using Tensorflow/Keras design neural network model to classify with CIFAR-10 Data Set