AMIT SHARMA

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Summary

Seeking full-time opportunities in the field of Data Science Machine Learning and Python development. Experience in Data Analysis, AWS, Machine Learning and Web Technologies.

Education

- Master of Computer Science, **Illinois Institute of Technology, Chicago** **Aug'15 – May'17**
- B. Tech, Electronic Instrumentation & Control Engineering, **PCE Jaipur (India)** **July'10 – May'14**

Technical Skills

- Data Analytics using Python, R, SAS, AWS with API like FB, Twitter, PyQT, Scikit-Learn, Numpy, Scipy, Matplotlib, Networkx, with some working knowledge of Tableau and SAS.
- Web Application Development using MySQL, HTML, CSS, Javascript, Jquery, Bootstrap, JAVA, Python.
- Cloud Computing using S3, DynamoDB and ec2 instances using Python Boto3 SDK, Linux.

Work Experience

Jaipur Development Authority, India | Data Analyst **July'14 – Aug'15**

- Collecting data from sources like government records and news feeds and cleaning it using R and python. Predicting the authenticity of the customer and developing individual records. Automating the data feeds for further processes and generating reports, visualizations and future predictions.

Academic Projects / Paper Presentations

- **Neural Network model for image classification using TensorFlow** **Python, TensorFlow, AWS, numpy**
  - Building an image classification model for CIFAR-10 dataset and running it on AWS GPU using Floydhub, a Platform-as-a-Service.

- **Handwritten Digit recognition using TFLearn** **Python, TFLearn, numpy**
  - A Neural network using TFLearn to classify the image as one of the numeric digit using MNISTdataset.

- **Movie review prediction using TFLearn** **Python, TFLearn, numpy, pandas**
  - Build a Neural network to analyze the sentiment of the review using IMDB dataset.

- **Bike-share user prediction using Neural Network** **Python, numpy, pandas, matplotlib**
  - Built a Neural Network implementing gradient descent and backpropagation. Controlling parameters like number of neurons and hidden layers to tweak the model for better prediction of bike-share users.

- **Cloud Enabled Distributed Task Execution Framework** **Python, AWS**
  - Developed a framework to execute large number of fine granular tasks using AWS like SQS and DynamoDB.
  - Built an app which converts image URLs into a 1 minute video and store them in S3 for users to download.

- **Real-Time Presidential Vote Prediction** **Python, TwitterAPI, NetworkX**
  - Tweets were fetched using Streaming TwitterAPI, Communities were formed based on the sentiments and according to the tweets it was predicted whether voter is going to vote in favor or against.

- **Content Based Movie Recommendation System** **Python, Pandas**
  - New movies are recommended using tf-idf and cosine similarity using the genre data of movies liked by users.

- **Facebook Community Detection and Link Prediction** **Python, FacebookAPI, NetworkX**
  - "Like" data for Bill Gates was collected using FacebookAPI and was done for one more hop. Girvan Newman was implemented for community detection and recommending new links or friends using same approach.

- **Free-Lancing website and webpages** **HTML, CSS, Javascript, Jquery, Bootstrap**

- Sharma, Amit (Jan – March 2015) "**Transitioning to IPV-6**" International Journal of Computer Science and Technology (IJCST), vol-6.1, v2. http://www.ijcst.com/vol61/1/42-Pulkit-Gupta.pdf