Priyanka Bedarkar

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OBJECTIVE

Seeking challenging opportunities wherein I could utilize my experience to projects involving applications of Machine Learning.

EDUCATION

Stony Brook University, Stony Brook, NY **December 2019**

Master of Science in Computer Science GPA : 3.67/4.0

- *Machine Learning, Natural Language Processing, Computer Vision, Algorithms, Operating Systems, Big Data Analytics.*
- *Working with Prof. Minh Hoai Nguyen towards my Master's project on real-time hand gesture recognition in the Vision Lab.*

Birla Institute of Technology & Science, Pilani - Goa Campus, India **May 2017**

Bachelor of Engineering in Computer Science GPA : 8.28/10.0

- *Deep Learning, Artificial Intelligence, Data Mining, Information Retrieval*

TECHNICAL SKILLS

Python, TensorFlow, Keras, PyTorch, OpenCV, C, Spark, Hive, Hadoop, SQL, Matlab, AWS (S3, Redshift), Java, MongoDB, Javascript.

PROFESSIONAL EXPERIENCE

SDE Intern at Uber Technologies (Uber Maps Team), Palo Alto, CA May'19 - Aug'19

- *Technologies used - Spark, Hive, SQL, Hadoop, Machine Learning*

Software Engineer at Indus OS (Data Science Team), Mumbai, India Jun'17 - Jul'18

- Managed and improved the data pipeline that transforms server logs to databases using AWS.
- Analyzed user behavior, established models for targeting users leading to increased user engagement.
- *Technologies used - Amazon Web Services (S3, Redshift, Kinesis), Python, MongoDB*.

Intern at Indus OS, Mumbai, India Jan'17 - Jun'17

- Created and deployed a web-application dashboard for OEMs to login and view their periodic reports.
- *Technologies used - Python (Flask API), HTML, Javascript, Bootstrap, MongoDB, Redis Cache.*

Research Intern (Undergraduate Thesis) Jun'16 - Dec'16

Advisor : Prof. R Venkatesh Babu, Indian Institute of Science (IISc), Bangalore, India

- Characterized image complexity and caption complexity in terms of scene elements, inter-element relations and established a relationship between them using MSCOCO and Visual Genome Datasets. *Framework - Keras.*

PROJECTS

Fake News Detection (Link) Oct'18 - Dec'18

- Trained different LSTM, CNN, and hybrid models to predict whether the text news is fake or not fake using NLP.

Depth Estimation in Images (Link) Oct'18 - Dec'18

- Implemented "Depth Map Prediction from a Single Image using a Multi-Scale Deep Network" paper.
- Improved the performance by experimenting with heuristics like data augmentation and ResNet architecture.

Action Recognition in Videos (Link) Oct'18 - Nov'18

- Trained different CNN, LSTM and hybrid networks on VGG16 features extracted from UCF101 dataset for action recognition in videos. LSTM+CNN hybrid outperformed all the other architectures.

Deforestation Trends from 2012 to 2018 using satellite imagery Mar'19 - May'19

- Used Spark (MapReduce) to efficiently read the high quality TIFF image data from hdfs.
- Applied K-Means over the extracted CNN features to locate regions with similar deforestation rates.

Character Detection in Images: Trained a Caffe model to predict whether an English character is present in the image or not.

Crimes Classification using Hadoop: Implemented Naive Bayes Classifier on Hadoop for Chicago Crimes Dataset.

Implemented PageRank using distributed TensorFlow over a Hadoop cluster on Google Cloud Platform.

New Stackable File System: bkpfs automatically creates backup versions of files, and allows to list, delete and view them.

Created a New System Call which takes an input file, encrypts or decrypts it, and then produces a copy into an output file.

CERTIFICATIONS

- Deep Learning Specialization - 5 Courses by deeplearning.ai Coursera Certificate Link