HARSH PARIKH

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EDUCATION

Illinois Institute of Technology, Chicago, IL DEC 2016
Master of Science in Computer Science **GPA: 3.57/4.0**

Dharmsinh Desai University, Nadiad, India MAY 2014
Bachelor of Technology in Electronics and Communication **GPA: 3.50/4.0**

RELEVANT EXPERIENCE

ClearAccessIP, Palo Alto, CA **JAN 2017-PRESENT**
Data Scientist

- Designed and implemented CNN algorithm to do semantic analysis on Patent data (~29B tokens) to provide customize recommendation.
- Developed web crawlers to collect company and patent data from web and implemented IR (Information Retrieval) system to get ranked results from large datasets.

Siemens Healthineers, Hoffman Estates, IL **JUNE 2016-DEC 2016**
Data Analyst / Software Engineer Intern

- Analyzed large datasets (~15TB) to provide strategic direction to the company.
- Implemented MongoDB and SQL scripts to create and populate tables in data warehouse for periodically reporting.

Text Analysis in Public Interest (TAPI) Lab, IIT Chicago. **JUNE 2016-DEC 2016**
Graduate Research Assistant
Gender and Age Classification using Facial Features (github.com/tapilab/hparik11)

- Designed an algorithm to identify gender and age of LinkedIn Profiles using facial features using Deep Learning and OpenCV under the guidance of Dr. Aron Culotta.

TECHNICAL PROFICIENCY

Language: Python, Java, C++, SQL

Database: MongoDB, Oracle SQL, MySQL, SQLite

Tools: Eclipse, IPython Notebook, Matlab, Git, Android Studio, OpenCV.

Platforms: Hadoop, Spark, Unix (Linux, Fedora, XV6), Android, Windows (10, 8.1, 7).

GRADUATE COURSEWORK

- Cloud Computing
- Design and Analysis of Algorithm
- Machine Learning
- Mobile App Development
- Online Social Network Analysis
- Operating System
- Science of Programming
- Database Organization

PERSONAL PROJECTS

Flappy-Bird Clone Game (github.com/Flappy_Bird) **Python/Django** **NOV 2015-JAN 2016**

- Designed a game using Python and used Django for web framework and design.
- Architected and implemented Difficulty levels, Graphics and Controls setting in game.

GSM Based Vehicle Location Finder for Parking **C** **JAN 2014-APR 2014**

- Designed a GPS system, finds the location of vehicle in Big parking and gives alert message if it detects suspicious activity.
- Extended its functionality by adding a GSM module to it for controlling it remotely. The GSM module was programmed using C.

ACADEMIC PROJECTS

Illinois Institute of Technology, Chicago, IL.

Handwritten Digits Classification (github.com/Digit-Classification) **Python** **JAN 2016-MAY 2016**

- Used OpenCV for Image Recognition and extracted data from an Image.
- Implemented Neural Networks, SVM and Random Forest algorithms from scratch for classification for MNIST dataset.

TeraSort on Hadoop MapReduce and Spark on AWS (github.com/Hadoop-Spark) **Python** **FEB 2016-APR 2016**

- Implemented 1 TB sort program for Hadoop MapReduce and Spark framework on 1 node and 16 nodes of AWS EC2.
- Initiated and implemented script for automatic configuration and deployment of Hadoop framework for 16 nodes.

CloudKon with Amazon EC2, S3, SQS and DynamoDB (github.com/CloudKon) **Python** **MAR 2016- MAY 2016**

- Used SQS for dynamic resource provisioning and duplicate tasks were also handled using DynamoDB.
- Implemented Producer-Consumer architecture using SQS, made video from sequence of Images and upload it onto S3 bucket.

Amazon Product Review Analysis (github.com/Amazon_Review_Analysis) **Python** **AUG 2015-DEC 2015**

- Analyzed Amazon product review using Amazon's Product API and provided custom ranking based on sentiment analysis.
- Extracted products' details and implemented Recommendation System for products based on their ranks.

Hawks Trade (github.com/E-Commerce-WebApp) **Java/Servlet/JSP** **JAN 2015–MAY 2015**

- Designed an E-commerce Web App. Server using Apache Tomcat and MySQL Database for trading items among IIT Students.
- Developed functionalities like Membership, Filtering, Leader Selection, Ranking and Comment box etc.

Amazon Cloud Benchmarking (github.com/Cloud_Benchmarking) **Python** **JAN 2016-MAR 2016**

- Evaluated CPU, Disk and Network Performance on Amazon EC2 Cloud and compare the efficiency with benchmarking tools.
- Analyzed Disk and Network's speed on Cloud and plotted various outcomes.

Find Places Near Me (github.com/Find Places Near Me) **Android/Java** **JAN 2016- MAY 2016**

- Design and Implement mobile application to find a nearest location using Google Map API.
- Provides detailed list of nearest places and give notifications based on User's Preference.