Vikash Deo

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GitHub
LinkedIn

TECHNICAL SKILLS

Languages: Python, JavaScript, R, HTML, CSS
Web Technologies: Python (Flask; FlaskAsk), Node JS, React JS, Bootstrap
Database: SQL, MySQL, PostgreSQL, SQLite, MongoDB
Tools Used: OpenCV, TensorFlow, Python (NLTK; Pandas; Matplotlib), Hadoop, AWS, GCP, GitHub

EDUCATION

NYU, Tandon School of Engineering, New York, NY **Dec 2016**
M.S. in Computer Engineering
- **Relevant Coursework**: Big Data Analytics, Advanced Database, Datacenter & Cloud Computing, Network Security

Indian Institute of Information Technology, Allahabad, India **Jun 2013**
Bachelors of Technology (B.Tech) in Electronics and Communication

INDUSTRIAL EXPERIENCE

Software Engineer, Tricon Infotech LLC **Feb 17 – Present**
- Develop an in-house microservices based platform which solves all the publishing needs for any organization.
- Write Production level code for the Front End based on UI wireframes, user stories and have code-review.
- Follow Scrum Framework for Agile Software Development. **React JS, MobX, Express JS, AWS, MongoDB, Git**

Research & Development Intern, Intersection Co. **Jun 16 – Dec 16**
- Worked in a team of ML engineers to develop POCs and rapidly prototyped different ideas and projects involving ML algorithms and applications based on client needs. **OpenCV, Python, TensorFlow, Google Cloud Platform**

INDUSTRIAL AND ACADEMIC PROJECTS

Alexa Skill to give company Information, Tricon Infotech LLC **Jul 17**
Built an Alexa skill for Amazon Echo simulator with multiple intents and utterances to give out the company's information and integrated it with company's website for internal **hackathon**. First prize winner.
Tools Used: Python FlaskAsk, ngrok, React JS, Twilio API

Probabilistic Model for Partial Grading in Engineering Math, Tricon Infotech LLC **May 17 - Jul 17**
Built a model for automatic grading for engineering math solutions. Professors could easily grade not on just final answers but could also give partial credits. **Tools Used:** Python SymPy, Flask, Mathematical Language Processing

Facial Attributes Comparison, Tricon Infotech LLC **Feb 17 - May 17**
Compared facial attributes, features of an image with a large image set & published content based on the image
Tools Used: Python, OpenCV, AWS Rekognition, AWS boto3

Crowd counting and Analysis on the streets of NYC, Intersection Co. **Nov 16 - Dec 16**
Counted the number of people in a crowd and performed some analysis on the crowd behavior.
Tools Used: Python, OpenCV, TensorFlow, Google Project Tensorbox, SVM, PCA

Object recognition and localization in a shopping cart, Intersection Co. **Sep 16 - Dec 16**
Recognized items for customers in shopping cart for a major retail chain to reduce checkout time and eliminate human assistance. Created a front-end for the client to visualize the working and algorithm.
Tools Used: OpenCV, Python, Convolutional Neural Networks, React JS, AdaBoost Algorithm

SMS based self-Learning Chatbot, Intersection Co. **Jun 16 – Aug 16**
Created an SMS based self-learning Chatbot service with NLP to answer questions about the space, Way Finding and other services for the Hudson Yards using Python NLTK and Google Cloud NL API.
Tools Used: Google Cloud Platform, Python Flask, Yelp, Twilio and Google Maps API

NYC Yellow Cab Rides Tip Percentage and Tip Deciding Factor, NYU **Jan 16 – May 16**
Visualization of NYC Yellow Cabs data, Tip percent and its deciding factor for the year 2014.
Tools Used: MapReduce, D3, Mapbox, AWS (EMR, EC2, S3)