VIKRAM SUNIL BAJAJ

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EDUCATION

New York University | Tandon School of Engineering

Master of Science in Computer Science (GPA: 3.93/4)

Brooklyn, NY May 2019

· Relevant Coursework: Machine Learning, Data Science, Big Data, Info Visualization, Computer Vision, Cloud Computing, Databases, Algorithms

· Honors: Awarded an Academic Achievement Award and a merit-based graduate scholarship

Gandhi Institute of Technology and Management GITAM School of Technology

Bachelor of Technology in Computer Science and Engineering (GPA: 3.95/4)

Hyderabad, India Apr 2017

· Relevant Coursework: Artificial Intelligence & Machine Learning, Data Mining, Cloud Computing, Probability & Statistics

EXPERIENCE

Curai Software Engineering Intern (Machine Learning) Palo Alto, CA

Feb 2019 - Apr 2019

- Built a "Suggest Diagnoses" feature with Deep Learning-based dermatological disease diagnosis in First Opinion to aid doctors with diagnosis
- Implemented a "Next Question" flow to determine the next question to ask a patient with Deep Learning-based image differential as a prior
- Trained a Rash vs. Neoplasm classifier (using PyTorch) that achieved 90% accuracy on dermatologist-annotated test images, to enable triaging
- · Developed a reusable image annotation tool and a React UI to demonstrate various Deep Learning models for dermatological disease diagnosis

Deutsche Bank | Chief Data Office

Technology Analyst Intern

New York, NY Jun 2018 - Aug 2018

- Applied Natural Language Processing in Python to map attributes based on similarities in their descriptions, toward automating data lineage
- · Performed sentiment analysis of news articles to analyze the correlation of sentiment with stock trend; built a Flask web app to demonstrate
- Reviewed the ML capabilities of DgSecure for the detection of personally identifiable information in unstructured data, toward GDPR compliance

New York University | Center for Data Science and Tandon School of Engineering Graduate Teaching Assistant and Grading Assistant

New York, NY Nov 2017 - May 2019

 TA for Information Visualization (CS-GY 6313) in Spring 2019, Deep Learning (CS-GY 9223-E) in Spring 2018, Big Data Analytics (CS-GY 9223-G) in Fall 2017 at NYU Tandon. GA for Deep Learning (DS-GA 1008) in Spring 2018 under Prof. Yann LeCun, Intro to Machine Learning (DS-GA 3001) and Programming for Data Science (DS-GA 1007) in Fall 2018 at NYU CDS

Indian Institute of Technology (IIT Madras) | Visualization and Perception Lab Summer Fellowship Intern

Chennai, India May 2016 - Jul 2016

Implemented a Content-Based Image Retrieval (CBIR) system in MATLAB, using Computer Vision and Machine Learning techniques

PROJECTS

Firewatch: Visualizing U.S. Wildfire Data | D3.js, Tableau

Oct 2018 - Dec 2018

· Used D3.js and Tableau to develop interactive visualizations (choropleth maps, bar charts and line charts) for U.S. wildfire data

Viki: A Web Search Engine | Python

Oct 2018 - Dec 2018

- Built a web search engine, comprising of a focused crawler, an indexer and a query processor
- Also performed a comprehensive survey of various query-independent and query-dependent search result snippet generation techniques

MusiCloud: A Cloud-Based Music and Concert Recommendation System | AWS Services, Python, Node.js

Mar 2018 - May 2018

· Led a team to develop a conversational bot that recommends music and upcoming concerts, using AWS Services and the Songkick API

Mask-it: Applying Snapchat-like Filters on Face Images | Python

Mar 2018 - May 2018

Implemented the overlaying of Snapchat-like filters on face images: face detection, landmark detection, mask morphing and alpha blending

NYU Network: A University Social Network | MySQL, PHP, HTML, CSS, JavaScript

Mar 2018 - May 2018

Created a social network prototype; features: sending friend requests, creating posts, likes, dislikes, updating user profile, viewing activity feed

Global Temperature Change Prediction | Python

Oct 2017 - Dec 2017

· Predicted the temperature of a given city across a specific time period, using an ARIMA model for time series forecasting

Climate Change and its Impact on Health | PySpark, Spark MLlib, Tableau

Oct 2017 - Dec 2017

Leveraged Big Data tools to analyze climate change and pollution data, and study their impact on human health

Al Sight: Object Recognition on your Smartphone! | Java, XML, Caffe

Dec 2016 - Feb 2017

Independently developed an Android app for offline object recognition (available on Play Store)

PUBLICATIONS

 Santosh, D. Teja, Vikram Sunil Bajaj, and Varun Sunil Bajaj. "Development of a Micro Hindi Opinion WordNet and Aligning with HOWN Ontology for Automatic Recognition of Opinion Words from Hindi Documents." International Conference on Next Generation Computing Technologies. Springer, Singapore, 2017

SKILLS

- Programming Languages: Proficient: Python, SQL, MATLAB; Working Knowledge: R, Java, D3.js, Node.js; Familiar: C, C++
- Data Science Libraries (Python): scikit-learn, nltk, gensim, pandas, numpy, matplotlib, plotly
- Tools/Technologies: Data Science, Machine Learning, Deep Learning (PyTorch, Keras-TensorFlow), Computer Vision, NLP, Tableau, Big Data (Hadoop, Spark, PySpark), AWS (Lambda, Lex, Amazon ML, Elasticsearch, DynamoDB), Flask, React, LaTeX, Graphic Design

CERTIFICATIONS

• Introduction to R for Data Science certificate by Microsoft on edX • Deep Learning Specialization certificate by Andrew Ng (deeplearning.ai) on Coursera Jun 2019 Sep 2018

· Introduction to Corporate Finance certificate by the Wharton School, University of Pennsylvania on Coursera

May 2018 May 2016

Introduction to Python for Data Science certificate by Microsoft on edX

Apr 2016

Machine Learning certificate by Stanford University on Coursera