Vikram Sunil Bajaj

vikrambajaj@nyu.edu | (347) 986-4201 | linkedin.com/in/vikrambajaj22 | github.com/vikrambajaj22 | vikrambajaj.me | Harrison, NJ

Education

New York University Tandon School of Engineering   Brooklyn, NY | May 2019

Master of Science in Computer Science (GPA: 3.93/4) | Merit-based Scholarship | Academic Achievement Award

Relevant Coursework: Machine Learning (TA), Deep Learning (TA), Data Science (TA), Big Data (TA), Information Visualization (TA), Computer Vision, Cloud Computing

Gandhi Institute of Technology and Management   Hyderabad, India | Apr 2017

B.Tech. in Computer Science & Engineering (GPA: 3.95/4)

Skills

Programming Languages: Python, Java, SQL, JavaScript

Data Science Libraries (Python): scikit-learn, nltk, gensim, pandas, numpy, matplotlib, plotly

Frameworks/Technologies: PyTorch, Keras-TensorFlow, Tableau, Flask, React, Spring Boot, GCP

Experience

Deutsche Bank Corporate Bank Technology   New York, NY | Jul 2019 - Present

Associate Software Engineer - Machine Learning Engineering   Feb 2020 - Present

- Leading the development of an in-house OCR service (in Python); a high-impact revenue-generating project, with significant reduction in document processing turnaround time and manual effort
- Trained SVMs for filter selection and smart template matching to automate document pre-processing, and implemented NLP-backed post-processing to improve OCR quality and minimize human intervention
- Developing new features, including training deep models for offline signature extraction and verification, improving scalability, and automating deployments using CI/CD pipelines
- Setting up the team's Kafka cluster to facilitate communication between various microservices

Grad Software Engineer - Data Engineering   Jul 2019 - Feb 2020

- Developed a generic database to database transfer service, using Java Spring Boot and SQL Server
- Enhanced a data reconciliation service, allowing it to support multiple recon types (file-file, file-database and database-database)
- Built an interactive dashboard, using React, to correlate incoming payments from various sources

Curai Health   Palo Alto, CA | Feb 2019 - Apr 2019

Software Engineering Intern - Machine Learning Engineering

- Built a *Suggest Diagnoses* feature (Deep Learning-based dermatological disease diagnosis) to aid doctors
- Implemented a *Next Question* flow: Deep Learning-based image differential in concert with an Expert System
- Trained a Rash vs. Neoplasm classifier (CNN using PyTorch) with 90% accuracy on dermatologist-annotated images, to enable automated triaging of patients
- Developed a reusable image annotation tool with a React UI to demonstrate/compare models

Deutsche Bank Chief Data Office   New York, NY | Jun 2018 - Aug 2018

Technology Analyst Intern

- Applied NLP (in Python) to map data attributes based on similarities in their descriptions, toward automating data lineage between systems in the Bank
- Performed sentiment analysis of news articles and built a Flask web app to analyze the correlation of sentiment with stock trend
- Reviewed the ML capabilities of DgSecure for the detection of personally identifiable information in unstructured data, toward GDPR compliance

Certifications

- GCP Professional Machine Learning Engineer   In Progress
- Deep Learning Specialization certificate by Andrew Ng (deeplearning.ai) on Coursera   Sep 2018
- Machine Learning certificate by Andrew Ng (Stanford University) on Coursera   Apr 2016