Vikram Sunil Bajaj

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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, PySpark, Tableau, Flask, React, Spring Boot, GCP

Experience

Bloomberg   New York, NY | Dec 2022 - Present
Senior Software Engineer / Machine Learning Engineer
- Leveraging Natural Language Processing techniques to power litigation analytics solutions, including case outcome prediction, on the Bloomberg Law Machine Learning team

Deutsche Bank Corporate Bank Technology   New York, NY | Jul 2019 - Dec 2022
Senior Software Engineer (AVP) - Machine Learning Engineering   Apr 2022 - Dec 2022
Associate Software Engineer (Analyst) - Machine Learning Engineering   Feb 2020 - Mar 2022
- Led the development of an in-house Document Management system; 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
- Developed deep models for offline signature extraction and verification, improved scalability, and automated deployments using CI/CD pipelines
- Set up the team's Kafka cluster to facilitate scalable communication between various microservices
- Contributed to the bank-wide Data Science Community of Expertise to establish standards across the bank

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

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: combined the differential diagnosis with an Expert System to recommend follow-up questions
- Trained a Rash vs. Neoplasm CNN classifier using PyTorch with 90% accuracy on dermatologist-annotated images, to enable automated triaging of patients

Deutsche Bank Chief Data Office   New York, NY | Jun 2018 - Aug 2018
Technology Analyst Intern
- Applied NLP 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 PII in unstructured data for 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