

Smriti Bajaj

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EDUCATION

Northeastern University, Boston, MA Sep. 2021 - Present
Candidate for **Master of Science in Data Science** GPA: 3.9
Madhav Institute of Technology & Science, Gwalior, India Aug. 2014 - Jun. 2018
Bachelor of Engineering in **Computer Science & Engineering** Honors

TECHNICAL SKILLS

Languages: Python, R, JavaScript, SQL, HTML, CSS

Databases: MongoDB, MySQL, XML and SQLite

Frameworks: Django, Node.js, React.js, Rest APIs, Scikit-learn, GraphQL, PyTorch, Git

Tools and Technologies: AWS EC2, GCP, Machine Learning, Deep learning, Splunk, Kibana

EXPERIENCE

- Motorola** | *Software Development Engineer Co-op - ML, MA, USA* Aug 2022 - Dec 2022
- Implemented innovative solutions to automate data handling for an object detection tool in **Python & Git**.
- Amazon** | *Software Development Engineer Co-op - ML, CA, USA* May 2022 - Aug 2022
- Performed data exploration, hyperparameter tuning and tfLite model deployment on an Android platform for object detection using **Python** and **JAVA** and achieved a performance rate of 82%
- Indian Institute of Technology** | *Research Intern - ML, Bombay, India* Nov 2020 - Mar 2021
- Led the teams in systematizing **agile techniques** and modified a layout annotation tool to digitize the books for Reliance Jio's educational product using computer vision libraries in **Python, Django and AWS EC2**.
 - Improvised an existing model by creating a corpus of 90k words through **web scraping, hyperparameter tuning, quantitative analysis** of OCR engines, and thus achieved 92.4% word-level accuracy.
- Accenture** | *Software Engineer - AI chatbots, Pune, India* Apr 2020 - Nov 2020
- Developed **microservices leveraging Node.js REST APIs** and GraphQL via 3rd-party integration with AWS SNS, Salesforce, Zendesk, and channels like Hangouts, resulting in a 10% growth in the customer base.
 - Reinforced the **natural language understanding** utilizing ML techniques like named entity recognition and a slot based NLP training for better intent mapping in both voice and text-based chatbots to improve Ux.
- Accenture** | *Associate Software Engineer - NLP, Pune, India* Aug 2018 - Apr 2020
- Designed the platform to detect intents through user queries for different chat bots and trained those utterances using **Natural Language Processors**- Dialogflow and Lex thereby improving the automation rate by 18 times.
 - Created dashboards in Kibana and debugged the production environment to make the application more robust.

PROJECTS

- Unsupervised Image Ranking** | *Northeastern University* Present
- On a dataset of 5000 images, extracted features vectors from the images, applied **spectral clustering and autoencoders** on these features and calculated ranks through euclidean distance and cosine similarity.
- Cifar-10 classification** | *Northeastern University* May 2022
- Using **PyTorch**, compared Logistic Regression, SVM and Deep Neural Network with CNN to maximize the accuracy and minimize the loss function for multi-class **classification** and achieved an accuracy of 89%.
- Clean water solution** | *IBM Call for Code* July 2021
- Scraped the data of 200 countries - 193 features from UN sources to **visualize correlations in R**.
 - Modeled an intelligent solution by clustering parameters based on **KNN distance plot, EDA with T-SNE** for small-scale farmers to identify the factors affecting water availability and its consumption, with IBM Watson.

RECOGNITIONS

- Event organizer for Khoury's Master Student Council.
- Attended Grace Hopper Celebration 2022 as a Scholar.
- Technical writer on Medium under @smritibajaj22.
- Received a reward for an exemplary contribution in delivering chatbots at Accenture.
- Published a technical and a business whitepaper at Accenture.
- Contributed to open-source projects for NFoton and Publiclab.