

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, JavaScript, R, SQL, HTML, CSS

Databases: MongoDB, MySQL, XML and SQLite

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

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

EXPERIENCE

Software Development Engineer Co-op - ML | Amazon, CA, USA

May 2022 - Aug 2022

- Performed machine learning experiments for object detection in Python and achieved a performance rate of 82%.
- For better inference times, deployed tfLite models for both CPU and GPU on an Android platform using JAVA.

Research Intern - ML, AI | Indian Institute of Technology, 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.
- Improvise an existing model by creating a corpus of 90k words through web scraping, hyperparameter tuning, quantitative analysis of state of the art OCR engines, and thus achieved 92.4% word-level accuracy.

Software Engineer - AI chatbots | Accenture Solutions, 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.

Associate Software Engineer - NLP | Accenture Solutions, 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.

Data Analytics Intern | Oracle Financial Services Software Ltd., Pune, India

Jun 2016 - Jul 2016

- Analyzed financial logs by data wrangling, visualization, feature engineering, and data modeling in Splunk.

PROJECTS

Unsupervised Image Ranking | Northeastern University

Present

- On a dataset of 5000 images, features vectors were extracted from the images, spectral clustering and autoencoders were applied on these features and ranks were calculated using 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 through dashboards.
- 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.
- Received a reward for an exemplary contribution in delivering chatbots, Accenture.
- Published a technical and a business whitepaper, Accenture.
- Contributed to open-source projects, NFoton and Publiclab.
- Technical writer on Medium under @smritibajaj22.