Smriti Bajaj

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Expected Graduation: **May - 2023**

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, C++, R, HTML, CSS
Databases: MongoDB, MySQL, XML and SQLite
Frameworks: Django, Node.js, React.js, Restful APIs, Scikit-learn, Keras, NLTK, Matplotlib, Tensorflow, Git
Tools and Technologies: AWS EC2, GCP, Computer vision, Machine Learning, Deep learning, NLP, Splunk, Kibana

EXPERIENCE

Graduate Teaching Assistant | *Northeastern University, Boston MA*   Jan 2022 - Present
- Engaged in grading and helping students code and debug solutions in **Algorithms(CS 5800)** during TA hours.

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 Indic books for Reliance Jio's educational product using **OCR model** built in Python, Django, AWS EC2 and Tesseract.
- Improvised the OCR model by creating a corpus of 90k words through **web scraping, fine-tuning** model characteristics, quantitative analysis of state of the art OCR engines, and achieved 92.4% word-level accuracy.

Software Engineer - AI chatbots | *Accenture Solutions, Pune, India*   Apr 2020 - Nov 2020
- Developed **microservices leveraging REST APIs** in Node.js with 3rd party integration of the application via AWS SNS, Salesforce, Zendesk, and channels like Hangouts resulting in a 10% increase in the client 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.
- Led technical demos, modeled logical data designs, delivered multiple knowledge transfer sessions on **MongoDB**.

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.

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

BlogsAndNews | *Northeastern University*   Dec 2021
- Independently implemented scalable front-end template, design modules in **Django**, embedded a multi-user authentication system, news API, user profiles and SMTP connectivity for blogging and reading technical articles.

Impact network visualization | *Sirius Global*   Aug 2021
- Improved authentication via Strapi providers - Google and LinkedIn APIs and visualized choropleth maps.

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.

News articles classifier | *Self-paced*   Jan 2021
- Scraped NY Times website, compared various state of the art **classification models** like SVM, Naive Bayes, Decision trees and others predicting categories of articles to achieve highest accuracy of 89% using Python libraries.

RECOGNITIONS

- 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.