

# JIMIT DHOLAKIA

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## EDUCATION

### Stony Brook University

Master of Science in Computer Science, GPA: 3.64/4.0

Stony Brook, NY

Expected Dec 2022

Relevant Coursework: Data Science, Analysis of Algorithms, Data Mining, Big Data Analytics, Teaching Assistantship

### KJ Somaiya College of Engineering

Bachelor of Technology in Computer Engineering, CGPA: 9/10

Mumbai, India

May 2018

Focus Areas: Machine Learning, Database Management, Software Development, Software Project Management

## SKILLS

Python, Data Science, Machine Learning, Deep Learning, NumPy, Pandas, scikit-learn, Keras, TensorFlow, PyTorch, OpenCV, spaCy, Hive, MongoDB, SQL, Flask, FastAPI, Streamlit, React.js, Git, Docker, Linux, Agile Methodologies, LaTeX

## WORK EXPERIENCE

### Amazon Web Services

Software Development Engineer Intern

Seattle, WA

May 2022 – Present

- Developed and deployed a responsive User Interface for an upcoming product using React.js, Python, which included unit testing (snapshot testing) using Jest framework, and other Amazon-internal tools & technologies
- Demonstrated ability to work independently & as part of a team by taking ownership of tasks & collaborating with others

### SUNY Research Foundation, Dept. of Biomedical Informatics, Stony Brook University

Senior Research Project Assistant - NLP

Stony Brook, NY

Mar 2022 – May 2022

- Conducted research using NLP technologies including spaCy, BERT, and Zero-shot text classification on the PASC data
- Collaborated with professors to analyze & interpret research findings, then presented recommendations based on the data

### Jio Platforms, a subsidiary of Reliance Industries Ltd.

Data Scientist

Mumbai, India

Jul 2018 – Jul 2021

- Successfully implemented a Document Validation System that reduced processing time from 15 minutes to 2 minutes for over 5000 documents daily, using Python, OpenCV, OCR, Fuzzy String Matching, and Kafka
- Architected and devised an algorithm to find potential duplicates from Material Master Data which is estimated to have 10-40% cost savings and reduces the efforts of MDM users by 50%, in just 3 sprints
- Implemented an Intelligent Incident Management System using Natural Language Processing to automatically categorize tickets and search for past resolutions of incidents with an average response time of 20 milliseconds
- Created a prediction model for MRO Materials using Machine Learning with an accuracy of 90% for 95% of all materials.
- Built a medication search service for RF Hospital that utilized Natural Language Processing and Trie data structures for ultra-fast search times with a mean response time of 30 milliseconds
- Awarded with the R-Samman Recognition Awards by senior leaders and received various recommendations on LinkedIn for designing and implementing projects that solve complex business use-cases, and delivering optimal results

## ACADEMIC PROJECTS

### Job Title Analysis (Stony Brook University) [[Link](#)]

Oct 2021 – Dec 2021

- Developed a model to predict the salaries by using Natural Language Processing techniques on Job Title & Skills, and combining it with ordinal features such as Education Levels using Machine Learning Algorithms having an  $R^2$  Score of 0.901
- Performed clustering on Job Titles by considering the required skills using Fuzzy String Matching, TF-IDF Vectorizer, and DBSCAN Clustering to achieve a Silhouette Coefficient of 0.134, and deployed the User Interface using Streamlit

### Website Fingerprinting using Deep Learning (Stony Brook University) [[Link](#)]

Oct 2021 – Dec 2021

- Reimplemented the paper "Automated Website Fingerprinting through Deep Learning" by developing a Convolutional Neural Network using PyTorch and Random Forest Classifier using Scikit-learn to achieve an accuracy of 94.02%

### Personalized Web Search based on User Profiling (KJ Somaiya College of Engineering)

Jul 2017 – Mar 2018

- Implemented Topic Modeling using Latent Semantic Indexing (LSI) and word2vec models; dynamically created hierarchical clusters of browsing history to re-rank the Search Engine Results Page for personalized search results
- Published the paper "Mining User's Browsing History to Personalize Web Search" in 2018 ICICCT, IEEE [[Link](#)]