Swati Damele

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EDUCATION

The University of Texas at Arlington, Arlington, TX — May 2022
Master of science, Computer Science (with Specialization in Machine Learning) — *GPA: 3.71*
Relevant Coursework: Statistics, Machine Learning, Neural Networks, Data Analysis and Algorithms

Rajiv Gandhi Technical University, Bhopal, India — May 2011
Bachelor of Engineering, Information Technology — *GPA: 3.75*

TECHNICAL SKILLS

Programming:	Python, Java, JavaScript, C, C++
ML Libraries:	NumPy, Pandas, Matplotlib, PyTorch, Scikit-learn, Seaborn, TensorFlow, Keras
Models:	BERT, ALBERT, GPT, LSTM, ARIMA (Time Series Forecasting), CNN, GAN
Database:	Oracle, Microsoft SQL Server, MySQL, MongoDB, PostgreSQL
Big Data:	HDFS, MapReduce, Spark, pig, hive
Cloud Technologies:	AWS, Google Cloud Platform

PROFESSIONAL EXPERIENCE

Software Development Engineer | **Amazon** — June 2022 – Present

- Designed ETL data pipeline using AWS Glue to process customer installment data and helped unlock useful insights which saved $2.1 M in a year
- Collaborated with Data Scientists to evaluate gaps in the existing devices sales pattern analysis using installments, develop a data driven approach to define, evaluate and monitor installment based sale patterns and improving devices sales by 36%
- Developed an application to handle various types of installment records using Java and Dynamo DB which eliminated manual efforts and helped in reducing the bulk processing time by 90%

Senior Software Engineer | **Tetrasoft** — Apr 2018 – Nov 2020

- Performed sentiment analysis on customer emails using Natural Language Processing to predict their state of mind facilitating the tool for better customer relations
- Developed an authorization module for handling health insurance of newborn babies thereby increasing the processing efficiency by 80%

Senior Solutions Engineer | **Pegasystems** — Aug 2014 – Apr 2018

- Designed search functionality using Elasticsearch in Pega PRPC Product making the product search 10x faster
- Developed data extraction tool named BIX as an add on product with Pega PRPC making data extraction possible in Pega without any integration

ACADEMIC PROJECTS

Class Attendance and Performance Analysis *(Tools: GCP, Docker, HTML, CSS, JavaScript)*

- Gathered class attendance data using GCP Object Detection library
- Captured students' performance using score based parameters in BigQuery
- Analyzed attendance versus performance results based on different courses and faculty.

Garbage Classification using CNN *(Tools: Python - numpy, matplotlib, TensorFlow)*

- Developed an app to classify garbage items by capturing their images
- Applied CNN for image classification on a mid sized dataset and improved the accuracy of the model by 3%

Sentiment Analysis on movie reviews *(Tools: Python - numpy, pandas, matplotlib, sklearn)*

- Performed sentiment analysis using Naïve Bayes Classifier and accurately predicted top 10 positive and negative words
- Applied Deep Learning techniques like LSTM to improve the accuracy of movie reviews by 7%

Twitter Data Analysis *(Tools: Map Reduce, Spark, Pig, Hive)*

- Collected data of who follows whom from Twitter app
- Performed aggregations on user data using Map reduce, Spark, Pig and Hive and analyzed the complexity and performance in each case.