

Sagar Daswani

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TECHNICAL SKILLS

- Proficient:** Python, TensorFlow, Keras, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, R, SQL, JavaScript, PostgreSQL, MongoDB, AWS, Azure, Spark, PySpark, Hadoop, Scala, Hive, Databricks, PowerBI, Tableau, Git
- Exposure:** PyTorch, Flask, Kafka, D3.js, Oracle, BeautifulSoup, Selenium, C/C++, Java

EDUCATION

M.S. Data Science & Analytics, Northeastern University

Jun 2020

- Relevant Coursework: Foundations and Applications of AI, Predictive Analytics, Advanced Data Mining, Big Data and Machine Learning, Data Warehousing in SQL, Data Structures and Algorithms

B.Eng. Computer Engineering, Dharamsinh Desai University

May 2018

WORK EXPERIENCE

Tamarin Health | Data Scientist, Intern | Boston, MA

Jul 2019 - Dec 2019

- Redesigned warehouse architecture and relational databases design to accelerate stability for +250 customers utilizing Microsoft Azure services (Data Lake, Databricks, PowerBI) and Apache Spark.
- Collaborated in data analysis and preprocessing utilizing Databricks backed by Apache Spark framework to provide analytics to physician group practices.
- Designed supervised machine learning pipeline using PySpark and SparkML on Microsoft Azure, reducing computation time by +15% for physician analytics platform with caching technique.
- Devised XGBoost and Naive Bayes machine learning models for predicting patient readmission rate with over 75% accuracy utilizing Python, PySpark, and SparkML, boosting profit margins by 10 - 15%.
- Communicated analytical solutions to stakeholders and implemented interactive dashboards in PowerBI.

Northeastern University | Big Data Graduate Teaching Assistant | Boston, MA

Jul 2019 - Nov 2019

- Taught 90+ students big data concepts (map-reduce, big query) leveraging Spark, Hadoop, Scala, and Hive.
- Assisted Northeastern IT Services with setting up Azure Lab services and Virtual Environment for classrooms.
- Hosted NASA Space App Hackathon and conducted workshops on real time analytics using streaming data.

Physical Research Laboratory - ISRO | Data Science Research, Intern | Ahmedabad, India

Jan 2018 - Apr 2018

- Engineered Monte Carlo simulation tool in Java and Swing and performed hypothesis testing to detect behavior and lifetime of objects in space when exposed to high energy solar winds.
- Integrated Tableau dashboards to accelerate analysis on results to communicate and validate with scientists.
- Incorporated open source tools using object-oriented approach with Java and Swing for interactive support.

PROJECT WORK

Disaster Tweet Classification | Machine Learning Engineer | [github](https://github.com)

Mar 2020

Leveraged tweets to develop sentiment analysis model for classifying tweets aimed to report disasters in a community.

- Integrated Tokenization, TF-IDF and built Recurrent Neural Network (RNN) with +85% accuracy in detecting disasters from Tweets using Python, TensorFlow, and Numpy.
- Extended architecture by adding LSTM, Bi-LSTM, GRU and pre-trained word embedding vectors (GloVe and fastText) utilizing Python and TensorFlow.

Historical Document Digitization | Machine Learning Engineer | [presentation](#) | [github](https://github.com)

Nov 2019

Devised pipeline to evaluate handwritten documents and extract data using OCR with an average of 85% accuracy.

- Implemented Convolutional Neural Network (CNN) in Python and TensorFlow for classification of documents from different decades or handwritten/typewriter with +91% accuracy.
- Incorporated bounding box algorithm for image segmentation and carried out image pre-processing using Python and OpenCV specific for each segment of image, which boosted accuracy by 10%

LEADERSHIP + CERTIFICATES

Deep Learning Specialization, deeplearning.ai | [Certificate](#)

Jan 2019

Founding Member, AI Skunkworks at Northeastern University

Mar 2019 - Mar 2020

- Conducted a workshop on Convolutional Neural Network and Backpropagation