Sakshi Patil

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Education:

New Jersey Institute of Technology **Newark, NJ**
Master of Science, Computer Science May 2023.
(**Courses:** Data Management System Design, Introduction to Big Data, Applied Statistics, Data Analytics with R, Java Programming, Operating Systems Design)

Dwarkadas J. Sanghvi College of Engineering **India**
Bachelor of Engineering, Computer Engineering Oct 2020
(**Courses:** Data Structures, Algorithms, Operating Systems, DBMS, Computer Networking, Machine learning, Object Oriented Programming and Methodology, Artificial Intelligence)

Skills:

Programming languages	Python, C, Java, R, SQL
Databases	MySQL, Oracle, Postgres, MongoDB
Data science tools and libraries	OpenCV, Tensorflow, numpy, pandas, sklearn, Hadoop, Pyspark
Miscellaneous	AWS EC2, Minitab, Jupyter notebooks, Microsoft suite, RStudio

Projects:

Web Crawler using R programming language. (Course work)

- Successfully extracted all the articles from a journal called Genome Biology.
- Collaborated with two other classmates in implementing a function that takes in year of publication and returns all the articles published after that year.
- Accumulated different fields such as author name, abstract, citations, etc in a dataframe and stored them in a CSV file.

Twitter Streaming Analysis with Spark Streaming. (Course work)

- Analyzed stream of tweets using Twitter API and Pyspark.
- Implemented Machine learning algorithms using Spark MLib to perform sentiment analysis on training data.
- Stored the collected data and the results in the database MongoDB.
- Successfully classified the tweets into positive and negative sentiment with the accuracy of 0.78.

Meeting Transcription and Summarization using Diarization. (Course work)

- Developed a system that records the meeting conversation and summarizes it for future reference.
- Designed a website wherein a company could keep a record of all the meetings and also generate the required summaries.
- Deployed BERT language model for summarization and LSTMs for voice embedding extraction.

EyeRis: Vision for Blind. (Personal Project)

- Developed a prototype to assist the visually impaired by notifying them of the objects and recognizing people within their vicinity, thereby alerting the guardian in case of dangerous objects (e.g. Fire) in the way.
- Implemented VGG16 and RESNET to detect the objects and Haar Cascade Classifier for facial recognition.
- Integrated Facial Recognition and Object Detection models.

Publications and Activities:

- Published a paper titled **"Logo Recognition Using Deep Learning and Storing Screen Time in MongoDB Database",** in Volume 8, No 5, September-October Issue of *International Journal of Advanced Trends in Computer Science and Engineering* in 2019. ISSN: 2278-3091. (http://www.warse.org/IJATCSE/static/pdf/file/ijatcse100852019.pdf)
- First runner up at hackathon hosted by the Computer Society of India.
- Achieved first prize at intercollege Project and Technical Paper presentation competition.