Sitanshu Kushwaha Data Engineer | ML Engineer | Software Engineer

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SKILLS

Big Data (Apache Spark, Kafka, Databricks, Azure Data Factory, AWS, GCP, Data Lake, ETL, NoSQL), Machine Learning (Scikit Learn, Tensorflow, NLP, Neural Networks, Deep Learning), Data Analytics (SQL, Pandas, Numpy, Matplotlib, Seaborn, Web Scraping, Tableau), **Languages** (Python, R, C, C++, JAVA.), **Tools** (Git, Docker, Databricks MLOps)

EDUCATION

New York University, MS in Computer Science

Sep 2023 – May 2025 | New York

Design and Analysis of Algorithms I, Big Data, Fundamentals of Data Science

Mumbai University, BE in Computer Engineering

Aug 2016 – Nov 2020 | Mumbai

9.32/10 CGPA (Rank: Top 10)

Big Data Analytics, Machine Learning, Data warehousing & Mining, Artificial Intelligence & soft computing, Digital Signal & Image Processing, Cloud Computing, NLP, Distributed Computing, Software Engineering

뤔 PROFESSIONAL EXPERIENCE

Data Engineer, LTIMindtree

Jan 2021 – Jun 2023 | Mumbai

Technical Lead, Visioncare MFF Data Engineering team - Johnson and Johnson

- Spearheaded optimization efforts in Databricks Spark code, resulting in a 30% reduction in execution time for 50% of Transformation Jobs, significantly improving data timeliness.
- Championed the adoption of event-based triggers for ETL pipelines, leveraging Azure Data Factory, to handle Big Data from multiple sources.
- This strategic switch enhanced efficiency, reduced costs by 25%, and mitigated unforeseen outages by 40%.

Machine Learning Engineer, Oniria Creations

Mar 2020 – Dec 2020 | Remote, Poland

- Developed a high-accuracy CNN TensorFlow model to precisely identify Pet service provider websites from Bing search results, achieving an impressive 92% accuracy rate.
- Automated the extraction of valuable CRM Data from service providers' websites using **NLP** and ML techniques, leveraging the powerful **BERT language model**.

Intern Machine learning Engineer, Toflo Fintech Consulting

Dec 2019 - Mar 2020 | Mumbai

- Engineered a sophisticated **Recommender System** for their e-commerce platform, leveraging **Big Data** analytics.
- Increased click-through rate by 33% for products displayed on a recommended section of the page.

Python Developer Intern, Innolearn Solutions pvt. ltd.

Dec 2018 – Jun 2019 | Mumbai

- Implemented a real-time web-scraping pipeline for BSE corporate announcements, achieving 95% accuracy in classifying them into 50 categories using **ML**, surpassing the previous keyword matching approach.
- Designed a user-friendly Website in Django to interact with the extracted data and hosted it on Heroku.

PROJECTS

Subjective Answer Evaluation using Machine Learning, (NLP, Django, TensorFlow)

- Utilized state-of-the-art NLP techniques, including BERT, USE, and Word2Vec language models, to assess students' subjective answers by measuring **semantic similarity** against the teacher's answer.
- Published a **research paper** in International Journal for Scientific Research and Development 🗷

Analysis of scanned prescriptions, (Computer vision, OpenCV, TensorFlow) ☑

• Utilized computer vision techniques like EAST for watermark removal, enhancing text detection, and CNN models for **text recognition** from scanned prescriptions.

Classification of Punjabi BBC Articles, (NLP, Keras)

• Developed a generic **Punjabi language model** using a public corpus for effective processing and understanding of Punjabi text, alongside a sentiment classifier with 87% accuracy for categorizing news articles as political or non-political.

Geolocation Data Preprocessing and Clustering, (Unsupervised learning, Geospatial Data Analysis)

- Processed and cleansed geolocation data, ensuring data quality and reliability, and applied advanced **clustering** algorithms, including **K-Means** and **DBSCAN**, to analyze **proximity** and **density** patterns.
- Evaluated and compared clustering models' performance, providing valuable insights for optimal selection, and visualized geolocation data interactively to uncover and analyze spatial patterns.