Sitanshu Kushwaha

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EDUCATION

New York University, MS in Computer Science

Sep 2023 – May 2025 | New York

Courses: Data Science, Machine Learning, Cloud Computing, Big Data, Design & Analysis of Algorithms

University of Mumbai, BE in Computer Engineering

Aug 2016 - Nov 2020 | Mumbai

PROFESSIONAL EXPERIENCE

Data Engineering Intern, NBCUniversal

Jun 2024 – present | New York

• Developed and deployed an ML-powered reporting system on Databricks, leveraging MLflow, CI/CD pipelines, and automated testing to determine the optimal cutoff time for live sports broadcasts, maximizing viewer engagement and ratings for Nielsen reporting.

Data Science Intern, NYU IT

Oct 2023 – present | New York

- · Orchestrated an ETL pipeline using Airflow and dbt to collect, transform, and store metadata in Snowflake, enabling a RAG system for LLM-powered impact analysis, allowing developers to assess schema changes, track dependencies, and retrieve insights on jobs, tables, and stored procedures.
- Developed a GenAI-powered chatbot in Streamlit with conversational memory, enabling developers to query Snowflake metadata using natural language, receive contextual follow-ups, and analyze schema modifications, leveraging LLMs and Cortex AI for intelligent retrieval and automated impact assessment.

Data Engineer, LTIMindtree

Jan 2021 – Jun 2023 | Mumbai

- Led the Data Engineering team to optimize Databricks Spark code, reducing execution time by 30% for 50% of transformation jobs, improving scalability and data timeliness for multi-TB datasets.
- Implemented CI/CD pipelines using Git and ARM templates in Azure, streamlining deployment, cutting cloud costs by 25%, and ensuring automated updates to Big Data ETL workflows.

Machine Learning Engineer, Oniria Creations

Mar 2020 – Dec 2020 | Remote

- Trained a text classification model using BERT embeddings as input features and TensorFlow, achieving 92% accuracy in identifying pet service provider websites from Bing search results.
- Developed an automated NLP pipeline leveraging Named Entity Recognition (NER) and a fine-tuned BERT model to extract and categorize structured data (e.g., business details, services, pricing) from pet service provider websites, building a comprehensive, queryable database.

Intern Machine learning Engineer, Toflo Fintech Consulting

Dec 2019 - Mar 2020 | Mumbai

• Engineered a hybrid Recommender System for an e-commerce platform, combining collaborative and content-based filtering algorithms. Implemented A/B testing to evaluate performance.

SKILLS

Machine Learning — Scikit Learn, Tensorflow, NLP, Neural Networks, Deep Learning, **Models** — Regression models, Decision Trees, XGBoost, SVM, K-means, Hierarchical Clustering, PCA, CNN, RNN, LSTMs, ARIMA, Big Data — Apache Spark, Kafka, Databricks, Azure, AWS, GCP, Data Lake, ETL, NoSQL, Data Visualization — Tableau, Matplotlib, Seaborn, Plotly, Languages — Python, JAVA, SQL, Tools — Git, Docker



PROJECTS

Beyond the 9 to 5: A Multivariate Analysis of Work-Life Balance, Commuting, and Job Attrition,

Data Analysis, Statistical Modeling, Data Visualization 🛮

 Analyzed the influence of work-life balance and commuting distance on job attrition, with findings indicating that improved work-life balance and shorter commutes are associated with lower attrition rates, mediated by job satisfaction.

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

- Incorporated 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 🛭 .

AWARDS