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 Education
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**Northeastern University** 

Master of Science in Information Systems, AI, ML & Data Science

**University of Mumbai** 

Bachelor of Engineer in Information Technology

Sept 2022 - July 2024

Boston, MA

May 2012 - May 2016

Mumbai, India

## **Technical Expertise**

Programming & Frameworks: Python, Django, R, Java SpringBoot, OpenMP, ReactJS, NodeJS, Spark Scala, FlaskAPI, Selenium Databases: MySQL, PostgreSQL, DBT, Hadoop, Hive, Teradata, Cassandra, MongoDB, Oracle SQL, AWS (RDS, Aurora, DynamoDB) AI, ML & Data Science: Regression, Classification, Pattern Recognition, CNN, RNN, Neural Networks, Deep Learning, NLP, Scikit Learn, Hugging Face, Object Detection, Large Language Models (LLM), AutoML, Tensorflow, Keras, PyTorch, CUDA, A/B Testing Tools: AWS, Azure [Data Factory], Kafka [Confluence], GitHub Actions, Docker, Snowflake, Databricks, Airflow, Astronomer, Kubernetes, Collibra, Data Warehouse [RedShift], Tableau, Postman, Swagger, Terraform

# **Work Experience**

# **Graduate Research Assistant (Software Engineering)**

Feb 2024 - Present

Northeastern University | Tech Stack: HTML, CSS, Node JS, Python, Qualtrics, LimeSurvey, R, Prolific

Boston, MA

Atlanta. GA

 $\bullet \ Designing \ 4-condition \ online \ instrument \ to \ simulate \ digital \ dashboard \ for \ study \ on \ visual \ communication \ \& \ spatial \ ability$ 

## **Data Analytics Engineer Co-Op**

May 2023 - Dec 2023

Novelis - An Aditya Birla Company | Tech Stack: Power BI, Salesforce, Arize, Azure, MLOps, Snowflake, Databricks Atla • Crafted data analysis strategies by integrating Salesforce in Power BI dashboards elevating reporting efficacy by 90%

- Streamlined operations by migrating R&D Accolade data to Snowflake, monitoring 15 key metrics such as Budget, IP, Projects
- Built Azure MLOps pipeline via DevOps, App Service, Docker, GitHub Actions, CLI, cutting ML models rollout time to 30 mins
- Analyzed real-time IOT sensor data using Databricks Streaming and Delta Lake for decision making & data integrity
- Extra-Efforts: Constructed 51.47% (35 out of 68) web-app modules React, FastAPI, PostgreSQL, Alembic, Postman

### **Graduate Research Assistant (Machine Learning)**

Feb 2023 - May 2023

Northeastern University | Tech Stack: Computer Vision, CNN, DeepFace, Image Analysis, AWS Sagemaker, HPC Boston, MA

• Engineered features images via OpenCV and Keras, processing 1000+ records to compute 20 attributes in 30 secs each

• Deployed CNN with Deepface model on **AWS Sagemaker** for face recognition, increasing precision and F1 score by **25%** for **Marketing Academia Research**, while also gathering diversity data

**Data Engineer** 

Dec 2020 - Aug 2022

UST Global Xpanxion | Tech Stack: GCP, AWS, Databricks, Hadoop, Terraform, Snowflake, Collibra, Salesforce

Pune, India

- Calibrated ETL pipeline using Kafka. NiFi, Snowflake, elevating data influx 25x, trimmed daily execution time by 4 hours
- Overhauled Hadoop data prep, achieved 20% surge, to cut generation time from 12 to 1 hour, with tuned ETL jobs in Teradata
- Developed ETL pipeline to AWS Glue, Redshift, Lambda, Step Functions, Terraform for credit reporting agency client
- Improved time series forecasts by 30% using GCP's TensorFlow, AutoML, fine-tuned hyperparameters, conducted A/B testing

#### **Senior Software Engineer Analyst**

Mar 2019 - Dec 2020

Accenture | Tech Stack: ETL, Restful APIs, AWS (EMR, S3, Redshift), PySpark, SQL, Stored Procedures, UI/UX

Mumbai, India

- Created Scala data pipeline for **pharma client,** ingested **streaming** data into Cassandra NoSQL database, totaling **500+** hours
- Generated over 100 PySpark reports via queries, views, stored procedures, window functions to extract 75% critical insights
- Configured ETL Pipeline using AWS EMR, S3, Redshift resulting 30% reduction in data processing time in 3 weeks
- Mentored 5 junior team members in sharing coding practices, KTs in system architecture, code reviews, problem-solving

# **System Engineer**

Mar 2017 - Mar 2019

Infosys | Tech Stack: Java, React, JavaScript, Automation Testing, NoSQL, GraphQL

Pune, India

- Enhanced banking client, agile project by building software components React UI, MongoDB and GraphQL
- Prepared testing framework with 30+ distinct cases using Java, Selenium, TestNG, Karate, RestAssured for CI/CD pipeline

#### **Academic Projects**

Netflix Movie Recommendation Engine | Machine Learning | Data Science | Recommendation Engine

Ian 2024

• Transformed Netflix Prize Data from .txt files, scrapped genre from IMDB, consolidated all into CSV, applied **Collaborative Filtering** ML model for personalized recommendations

Aircast - Air Quality Forecasting | LSTM Forecasting | Data Pipeline | Data Augmentation | MVP Architecture

Apr 2023

- Orchestrated DaaS with S3, RDS, informed Air Quality forecasts via Hugging Face LSTM model with RMSE 0.8 in EC2
- Integrated MLaaS, Streamlit, FastAPI, Airflow, Nginx, Kubernetes, Postgres, CloudWatch, Great Expectations data quality tool

#### **Achievements**

**Promotion** to **Senior** SDE at Accenture **Pat on the Back Award** at UST-Xpanxion

Mar 2020

Jan 2022

## **Certifications and Student Clubs**

MS Azure Fundamentals AZ-900

Feb 2020

IBM Coursera Data Science Capstone SpaceX Project

Jan 2024

Solidity and Web3 Framework 'Technical Expert' at NEU Blockchain Student Organization

Dec 2023 - Present