

Varsha Hindupur

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Education

Northeastern University

Sept 2022 - July 2024

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

Boston, MA

Courses: Big Data Intelligent Analytics, Adv. Data Science, Gen. AI, High Parallel Computing AI ML, App Dev. & Engineering

University of Mumbai

May 2012 - May 2016

Bachelor of Engineer in Information Technology

Mumbai, India

Technical Expertise

Programming: Python, Scala, SAS, Spark, R, React, Terraform, Node JS, Java SpringBoot, C/C++, FlaskAPI, FastAPI, Selenium

Databases: SQL, DBT, Hadoop, Hive, Teradata, MySQL, T-SQL, MS SQL Server, Collibra, RDS, Data Factory

AI, ML & Data Science: Regression, Classification, Pattern Recognition, Neural Networks, Deep Learning, NLP, Scikit Learn, Hugging Face, Object Detection, Large Language Models (LLM), AutoML, Tensorflow, Keras, PyTorch, CUDA, A/B Testing

Cloud: AWS, Azure, Kafka Confluence, GitHub Actions, Docker, Snowflake, Databricks, Airflow, Astronomer, Kubernetes

Certification: MS Azure Fundamentals AZ-900 (Feb 2020), IBM Coursera Data Science Capstone SpaceX Project (Jan 2024)

Clubs: Technical Expert at NEU Blockchain Student Organization (Dec 2023 - Present)

Publication: Data Transfer Through Human Body in IEEE & Presented in IEEE's IOTA Conference (Jan 2016)

Work Experience

Data Analysis Co-Op

May 2023 - Dec 2023

Novelis - An Aditya Birla Company | Tech Stack: Power BI, Salesforce, LLM, Arize, Azure MLOps

Atlanta, GA

- Accomplished data analysis strategies by utilizing Salesforce & Power BI reporting elevating operational efficiency by **90%**
- Built & analyzed **15** KPIs like budget, project completion, IP generation in Snowflake to optimize projects & foster invention
- Built Azure MLOps pipeline via DevOps, App Service, Docker, GitHub Actions, CLI; cutting models rollout time to **30** mins
- Crafted "EagleGPT" on top of ChatGPT, by improving conversational AI dialogues, model responses, & backend system
- Extra-Efforts:** Built & integrated **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, Image Analysis, DeepFace Model, AWS Sagemaker

Boston, MA

- Feature engineered images via OpenCV, Keras computing **20** attributes in **30 secs** for each **1000+ records** leveraging NEU's Discovery (High Performance Parallel Computing Virtual Machine) surging performance in speed and time by **80%**
- Executed Deepface model on AWS SageMaker; got **25% boost** in precision, F1 score for Marketing Research Academia

Data Engineer

Dec 2020 - Aug 2022

UST Global (Xpanxion). | Tech Stack: GCP, AWS, Databricks, Hadoop, Teradata, Snowflake, Collibra, Salesforce

Pune, India

- Constructed **ETL pipeline** using Kafka, NiFi, Snowflake; elevated data influx **25x**, trimmed daily execution time by **4 hours**
- Overhauled Hadoop data prep, achieved **20% surge**, cut creation time from **12 to 1 hour**, with tuned ETL jobs in Teradata
- Migrated ETL pipeline to AWS Glue, Redshift, Lambda, Step Functions, Terraform for credit reporting agency client
- Enhanced **time series forecasting** by **30%** with GCP's TensorFlow & AutoML, optimizing hyperparameters & 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

- Led creation of **in-house library** via **React, Python** for reusable modules & saving **80+ monthly hours for pharma client**
- Produced **100+** PySpark reports using queries, views, stored procedures, window functions to get **75% reporting efficacy**
- Configured **ETL Pipeline** using **AWS EMR, S3, Redshift** achieving **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 (SpringBoot), React, JavaScript, HTML, CSS, Automation Testing, NoSQL, GraphQL

Pune, India

- Enhanced **banking client** agile project by building Spring Boot microservices, React UI using MongoDB & GraphQL
- Built testing framework with **30+ distinct cases** using Java, Selenium, TestNG, Karate, RestAssured for CI/CD pipeline

Business Intelligence Intern

Nov 2016 - Jan 2017

Rendered Ideas | Tech Stack: Sentimental Analysis, Microsoft Excel, SAS, ELT (Extract Load Transform)

Mumbai, India

- Revamped player engagement analysis using **SAS**, reducing ELT time by **8 hours**, achieving **10% revenue growth**
- Optimized **sentimental analysis** by dataset construction via feedbacks, creating **10x surge in game downloads** worldwide

Academic Projects

Netflix Movie Recommendation Engine | AI & ML | Data Mining | Data Science | Data Wrangling

Jan 2024

- Transformed Netflix Prize Data from .txt files into consolidated CSV, employed **Collaborative Filtering** for personalized recommendations, **web scrapped** genre from IMDB, executed on Discovery (Northeastern's HPP VM) for **5x speed**

Aircast - Air Quality Forecasting | ML | MLOps Engineering | Data Augmentation | MVP Architecture

Apr 2023

- Crafted Streamlit app, orchestrating **DaaS** with Amazon S3 and **RDS**; informed Air Quality forecasting via **Hugging Face** LSTM model with RMSE: 0.8 in EC2, integrating ML-as-a-Service (**MLaaS**) using FastAPI, Airflow, Nginx, Docker, Kubernetes, PostgreSQL, CloudWatch, leveraged the Great Expectations Tool for data quality validation

Honors & Awards

Promotion to Senior SDE at Accenture (Mar 2020), **Pat on the Back Award** at UST-Xpanxion (Jan 2022)