

VARSHA HINDUPUR

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EDUCATION

Northeastern University <i>Master of Science in Information Systems, ML Engineering & Data Science</i> Courses: Big Data Intelligent Analytics, Adv. Data Science, Gen. AI, High Parallel Computing AI ML, App Dev. & Engineering	Sept 2022 - July 2024 <i>Boston, MA</i>
University of Mumbai <i>Bachelor of Engineer in Information Technology</i>	May 2012 - May 2016 <i>Mumbai, India</i>

TECHNICAL EXPERTISE

Programming: Python, SQL, DBT, Spark, Java (SpringBoot), R, C/C++, JavaScript (React, Angular, Node), Perl, Scala, Julia
AI, ML & Data Science: Deep Learning, Regression & Classification, LLM, Hugging Face, NLP, LLM, Scikit-Learn, AutoML, Tensorflow, Keras, PyTorch, SAS, Hadoop, Hive, FlaskAPI, FastAPI, Terraform, Teradata, Selenium, CUDA, A/B Testing
Cloud: AWS, Azure, Kafka, GitHub Actions, Docker, Snowflake, Databricks, Airflow, Astronomer, Kubernetes, Blockchain
Certification: MS Azure Fundamentals AZ-900 (Feb 2020), **Publication:** Data Transfer Through Human Body (Jan 2016)
Extra-Curricular: Technical Expert at NEU Blockchain Student Organization (Dec 2023 - Present)

WORKS EXPERIENCE

Data Analysis Co-Op <i>Novelis - An Aditya Birla Company Tech Stack: Power BI, Salesforce, LLM, Arize, Azure MLOps</i>	May 2023 – Dec 2023 <i>Atlanta, GA</i>
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- 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) <i>Northeastern University Tech Stack: Computer Vision, Image Analysis, DeepFace Model, AWS Sagemaker</i>	Feb 2023 - May 2023 <i>Boston, MA</i>
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- Conducted image feature engineering via OpenCV, Keras computing **20** attributes in **30 secs** for each **1000+ records** leveraging NEU's Discovery (High Performance Parallel Computing VM) surging performance (speed & time) by **80%**
- Executed Deepface model on AWS SageMaker; got **25% boost** in precision, F1 score for Marketing Research Academia

Data Engineer <i>UST Global (Xpanxion) Tech Stack: GCP, AWS, Databricks, Hadoop, Teradata, Snowflake, Collibra, Salesforce</i>	Dec 2020 - Aug 2022 <i>Pune, India</i>
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- Constructed **ETL pipeline** using Kafka, NiFi, Snowflake; elevated data influx **25x**, trimmed daily execution time by **4 hours**
- Designed APIs to integrate Collibra & Salesforce data via Databricks; optimized data processing for **reuse** in **3 projects**
- 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 <i>Accenture Tech Stack: ETL, Restful APIs, AWS (EMR, S3, Redshift), PySpark, SQL, Stored Procedures, UI/UX</i>	Mar 2019 - Dec 2020 <i>Mumbai, India</i>
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- Led creation of **in-house library** via **React, Python** for reusable modules & saving **80+ monthly hours** for **pharma client**
- Produced **100+** PySpark reports, attained **75% reporting efficacy** with queries, views, stored procedures, windows functions
- 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, KT's in **system architecture**, code reviews, problem-solving

System Engineer <i>Infosys Tech Stack: Java (SpringBoot), React, JavaScript, HTML, CSS, Automation Testing, NoSQL, GraphQL</i>	Mar 2017 - Mar 2019 <i>Pune, India</i>
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- 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 <i>Rendered Ideas Tech Stack: Sentimental Analysis, Microsoft Excel, SAS, ELT (Extract Load Transform)</i>	Nov 2016 - Jan 2017 <i>Mumbai, India</i>
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- 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

Aircast - Air Quality Forecasting <i>ML MLOps Engineering Data Augmentation MVP Architecture</i>	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	
Ride Fare Prediction(Uber/Lyft) <i>Machine Learning Exploratory Data Analysis (EDA) Data Modeling</i>	Mar 2023
□ Predicted price using Linear Regression, Decision Tree, Gradient Boosting Regressor models - & Folium to analyze factors such as weather, ride choices, distance; achieved high accuracy via MAE, MSE, RMAE values closer to 1	
Meeting Intelligence App <i>Data Engineering Data-as-a-Service (DaaS) ChatGPT 3.5, Whisper, Dall-E</i>	Feb 2023
□ Crafted voice-to-text-image pipeline, transcribed audios & videos to text & images by OpenAI APIs with query responses	

HONORS & AWARDS

Promotion to Senior Software Engineer Analyst at Accenture (Mar 2020)
Pat on the Back Award at UST-Xpanxion (Jan 2022)