VARSHA HINDUPUR

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EDUCATION

Northeastern University   **Sep 2022 - July 2024**
Master of Science in Information Systems, ML Engineering & 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, 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**), IBM Coursera Data Science SpaceX Data Project (**Jan 2024)**
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   **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*
☐ 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   **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**
☐ 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   **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, attained 7**5% 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, 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

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

Ride Fare Prediction(Uber/Lyft) | *Machine Learning | Exploratory Data Analysis (EDA) | Data Modeling*   **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 | *Data Engineering | Data-as-a-Service (DaaS)| ChatGPT 3.5, Whisper, Dall-E*   **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** SDE at Accenture (**Mar 2020); Pat on the Back Award** at UST-Xpanxion (**Jan 2022)**