

VARSHA HINDUPUR

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EDUCATION

Northeastern University	Sept 2022 - July 2024
Master of Science in Information Systems, ML Engineering & Data Science	Boston, MA
University of Mumbai	May 2012 - May 2016
Bachelor of Engineer in Information Technology	Mumbai, India

TECHNICAL SKILLS

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)

WORKS EXPERIENCE

Data Analysis Co-Op	May 2023 – Dec 2023
Novelis - An Aditya Birla Company Tech Stack: Hugging Face, Arize, Azure MLOps, Power BI, Salesforce, LLM	Atlanta, GA
<ul style="list-style-type: none">Executed predictive modeling with Hugging Face, validating equipment reliability in diverse manufacturing plantsBuilt Azure MLOps pipeline via DevOps, App Service, Docker, GitHub Actions, CLI; cutting models rollout time to 30 minsBuilt "EagleGPT" on top of ChatGPT, by improving conversational AI dialogues, model responses, & backend systemExtra-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, Sagemaker	Boston, MA
<ul style="list-style-type: none">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, Databricks, Hadoop, Teradata, Snowflake, Collibra, Salesforce, Docker	Pune, India
<ul style="list-style-type: none">Architected ETL pipeline using Kafka, NiFi, Snowflake; elevated data influx 25x, trimmed daily execution time by 4 hoursDesigned APIs to integrate Collibra & Salesforce data via Databricks; optimized data processing for reuse in 3 projectsOverhauled Hadoop data prep, achieved 20% surge, cut creation time from 12 to 1 hour, with tuned ETL jobs in TeradataEnhanced time series forecasting by 30% with GCP's TensorFlow & AutoML, optimizing hyperparameters, ensemble learning, batch normalization, pruning, learning rate scheduling and A/B testing	
Senior Software Engineer Analyst	Mar 2019 - Dec 2020
Accenture Tech Stack: UI/UX, React, JavaScript, ETL, Restful APIs, AWS (EMR, S3, Redshift), Jira	Mumbai, India
<ul style="list-style-type: none">Re-architect multi-page app with product managers, optimizing user experience, enabling scalability for 1000+ usersChampioned creation of in-house UI library using React, building reusable components & saving 125+ hours per monthConfigured ETL Pipeline using AWS EMR, S3, Redshift achieving 30% reduction in data processing time in 3 weeksMentored 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: PySpark, SQL, Stored Procedures, JavaScript, Automation Testing, Java (SpringBoot)	Pune, India
<ul style="list-style-type: none">Produced 100+ PySpark reports, attained 75% reporting efficacy with queries, views, stored procedures, windows functionsBuilt 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, ETL	Mumbai, India
<ul style="list-style-type: none">Revamped player engagement analysis using SAS, reducing ETL time by 8 hours, achieving 10% revenue growthOptimized sentimental analysis by dataset construction via feedbacks, creating 10x surge in game downloads worldwide	

ACADEMIC PROJECTS

Aircast - Air Quality Forecasting MLOps Engineering Data Augmentation MVP Architecture	Apr 2023
Tech Stack: Docker, Airflow DAGs, NGINX, PostgreSQL, FastAPI, AWS (CloudWatch, RedShift, EC2), Great Expectations Tool <ul style="list-style-type: none">Developed Streamlit app, orchestrating DaaS with Amazon RDS and S3; Performed Air Quality forecasting LSTM (RMSE: 0.8); facilitated AWS hosting integrating Docker, FastAPI, Airflow, NGINX; Integrated ML-as-a-Service(MLaaS)	
Ride Fare Prediction(Uber/Lyft) Machine Learning Exploratory Data Analysis (EDA) Data Modeling	Mar 2023
<ul style="list-style-type: none">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, Whisper, Dall-E APIs	Feb 2023
<ul style="list-style-type: none">Crafted voice-to-text-image pipeline, transcribed audios & videos into text & images; GPT-3.5 for intelligent query responses	

HONORS & AWARDS

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

EXTRA-CURRICULAR

"Tech Expert" at "NEU Blockchain" Student Organization	Dec 2023 - Present
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