

Sathvik Vadavatha

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EDUCATION

Northeastern University
Master of Science (MS) in Computer Information Systems

Boston, MA
January 2024 – December 2025

University of Illinois Urbana-Champaign
Bachelor of Science (BS) in Mechanical Engineering

Champaign, IL
August 2018 – May 2022

SKILLS

Programming: Python, Java, R, SQL

Machine Learning & AI: Scikit-learn, TensorFlow, Keras, PyTorch, CUDA, LangChain, LangGraph, HuggingFace

Data Analysis & Visualization: Pandas, NumPy, Excel, Probability, Statistics, Matplotlib, Seaborn, Tableau, Power BI

Cloud Tools: AWS (SageMaker, Step Functions, S3), GCP, Azure, Docker, Airflow, Terraform, Git

Databases & Big Data Tools: PostgreSQL, Snowflake, MongoDB, Hadoop, Databricks, Pinecone, FAISS

Other: Streamlit, React, Vue.js, HTML, CSS, PTC Windchill, Jira

WORK EXPERIENCE

Triple Ring Technologies

Data Science Intern

Boston, MA
June 2025 – August 2025

- Architected IaC ML pipelines with Terraform & AWS Step Functions (multi-cloud on AWS/GCP), enabling scalable training, deployment, and inference on medical datasets
- Automated data pipelines for time-series & imaging (preprocessing, windowing, feature engineering), improving reproducibility and reducing manual preparation
- Deployed Random Forest models for activity classification & regression, plus imaging workflows, on SageMaker real-time endpoints for production use
- Created reusable IaC templates & documentation aligned with FDA AI/ML guidelines, boosting compliance readiness and multi-cloud extensibility

ITC Infotech USA

Product Lifecycle Management Intern

Frederick, MD
September 2022 – October 2023

- Developed and executed test cases for PTC Windchill, validating data workflows and system functionality to ensure seamless integration of engineering data
- Managed and structured 3D model data, ensuring version control, revision tracking, and change management for streamlined collaboration
- Configured Windchill for data and document management based on business needs, setting up custom attributes, naming conventions, and change workflows to optimize efficiency

PROJECTS

NutriGuard AI (Food Label Analyzer & Meal Tracker)

March 2025 – April 2025

- Engineered a full-stack AI-powered nutrition assistant that integrates OCR-based label extraction, meal journaling, ingredient analysis, and contextual Q&A
- Implemented automated pipelines to extract, clean, and ingest food label data (Azure OCR) and public datasets (USDA, FDA, NIH), storing embeddings in Pinecone for vector search
- Created a secure app (Next.js + FastAPI) with JWT-authentication logging and Dockerized deployment on AWS EC2

AI-Powered Multimodal Travel Guide with Agentic Architecture

October 2024 – December 2024

- Created an AI-powered travel guide to provide flight prices, reviews, weather updates, and nearby attractions based on user-provided text or images
- Designed an agentic architecture using LangChain to enable intelligent querying, including image-to-text landmark recognition and budget forecasting
- Implemented dynamic conversation handling with intent recognition and contextual memory