Bhargav Pamidighantam

U.S. Citizen | Boston, MA | bhargavsp01@gmail.com | (346) 648-5516 | linkedin.com/in/bhargavpam | github.com/bkiritom8 | bkiritom8.github.io

Experience

Apple *Mar 2023 – Mar 2024*
AI/ML Data Operations Analyst Hyderabad, India

- Performed large-scale data annotation, transcription, and quality control for **speech, vision, and multimodal ML models** supporting Siri-related workloads.
- Reviewed and evaluated **700K+** audio, text, and image samples, identifying labeling errors, ambiguity, and systematic failure patterns in model outputs.
- Conducted qualitative analysis of **LLM and ASR outputs** across multiple English dialects, documenting error categories and edge cases for downstream model iteration.
- Worked with annotation guidelines, QA protocols, and escalation workflows to maintain consistency and reliability across high-volume ML data pipelines.

SSP 2000 Inc. *May 2021 – Jul 2021*
IT Operations Intern Hyderabad, India

- Built an internal **inventory tracking system** using Python and PostgreSQL to replace manual asset logging workflows.
- Designed relational database schema and implemented REST-style endpoints to support CRUD operations for operational data.
- Focused on correctness, maintainability, and documentation rather than production-scale deployment.

Education

Northeastern University *Sep 2024 – May 2026*
M.S. in Computer Science (Machine Learning, Distributed Systems), GPA: 3.7/4.0 Boston, MA

Indian Statistical Institute *Oct 2022 – Oct 2023*
Postgraduate Diploma in Applied Statistics (Statistical Methods for ML) India

ICFAI Business School *Aug 2019 – May 2022*
Bachelor of Business Administration India

Certifications: Stanford University — Machine Learning Specialization | Google — Data Analytics, Project Management

Technical Skills

Programming: Python, Java, SQL, R, Go, HTML
ML & Data: PyTorch, TensorFlow, Scikit-learn, Hugging Face (BERT, T5), XGBoost, SHAP
Visualization & Interfaces: Matplotlib, Seaborn, Tableau
Systems & Infrastructure: Docker, Kubernetes (fundamentals), Git, CI/CD (GitHub Actions), AWS (EC2, S3), Terraform (foundational), Airflow (academic)
Databases & Tools: PostgreSQL, MySQL (Workbench), MongoDB (Compass)
ML Workflows: Data pipelines, model evaluation, experiment tracking, hyperparameter tuning

Projects

F1 Race Strategy Optimizer — Team Project *Apr 2026*
- Leading data infrastructure for collaborative **MLOps Expo** project. Building data ingestion from Ergast API, driver profile feature extraction, and baseline XGBoost models for tire degradation prediction.
- Architecting GCP deployment with BigQuery and Dataflow streaming; implementing Monte Carlo pit strategy simulation and real-time inference API (FastAPI).

Cross-Platform PyTorch Training Framework *Personal Project*
- Built deep learning training framework with automatic device detection across CUDA, MPS, and CPU backends, including checkpoint saving/loading and early stopping callbacks.
- Validated on CNN and ResNet architectures (CIFAR-10) with configurable logging and environment setup scripts.

Explainable ML for Alzheimer's Classification *Academic Project*
- Multiclass classification on blood gene expression data (20K+ features) to predict Alzheimer's stages with feature selection, hyperparameter tuning, and **SHAP-based interpretability analysis**.

Clinical Text Summarization with T5 *Academic Project*
- Fine-tuned T5 model on 3,700+ medical notes using PyTorch and Hugging Face; implemented gradient accumulation for memory efficiency and ROUGE metrics evaluation.