Bhargav Pamidighantam

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Experience

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

- Designed and implemented evaluation frameworks for multilingual **LLMs** across **700K+** voice, audio, and text prompts, identifying cross-dialect failure modes and informing retraining strategies.
- Applied linguistic expertise in Singaporean English to improve NLU model robustness, reducing cross-dialect error rate by **62%**.
- Partnered with ML engineers to optimize annotation and evaluation pipelines, significantly reducing experiment turnaround time.

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

- Built a digital inventory tracking system for R&D operations, improving asset traceability and reducing manual errors.
- Developed backend APIs using **Python** with a **PostgreSQL** database.

Education

Northeastern University *Sep 2024 – May 2026*
M.S. in Computer Science (Machine Learning focus), 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 | AWS Solutions Architect Associate (in progress)

Technical Skills

Languages: Python, Java, SQL, R
Machine Learning: PyTorch, TensorFlow, Scikit-learn, XGBoost, Hugging Face, SHAP
ML Techniques: Model training and evaluation, hyperparameter tuning, explainability, NLP
Data & Infrastructure: Pandas, NumPy, PostgreSQL, Snowflake, MongoDB, Seaborn
Cloud & DevOps: AWS, Git, Linux, CI/CD

Projects

Explainable ML for Alzheimer's Stage Classification *Oct 2025 – Dec 2025*

- Trained and optimized multiclass models (Logistic Regression, SVM, Random Forest, XGBoost, neural networks) on gene expression and clinical data with **20K+ features**.
- Evaluated models using cross-validation and performance metrics; applied **SHAP** to interpret feature importance and validate biological relevance.
- Improved accuracy and reduced computational cost through feature selection and hyperparameter optimization.

Clinical Text Summarization using T5 Transformer *Jul 2025 – Aug 2025*

- Built an end-to-end NLP pipeline using **Python, PyTorch, Hugging Face** to train and evaluate T5 models on **3,700+** clinical notes.
- Achieved **97%** text compression; evaluated output using ROUGE metrics and human assessment.