

Bhargav Pamidighantam

U.S. Citizen

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Education

Northeastern University MS, Computer Science, focused in Machine Learning , GPA: 3.7/4.0	Sep 2024 – May 2026
Indian Statistical Institute PGD in Applied Statistics, focused in Statistical Methods for Machine Learning	Oct 2022 – Oct 2023
ICFAI Business School Bachelor of Business Administration	Aug 2019 – May 2022
Certifications:	
• Stanford University : Machine Learning Specialization, Oct 2025 • AWS : Cloud Practitioner (ongoing)	
• Google : Data Analytics Certificate, Project Management Certificate	

Experience

Apple AI/ML Data Operations Analyst	Mar 2023 – Mar 2024
• Designed and implemented a Python -based framework to evaluate multilingual LLMs across 700K+ voice/audio and text prompts, identifying cross-dialect failure modes and informing retraining strategies.	Hyderabad, India
• Leveraged linguistic expertise in Singaporean English to fine-tune NLU models, reducing cross-dialect error rate by 62%	
• Collaborated with ML engineers to optimize annotation and evaluation pipelines, reducing experiment turnaround time.	
SSP 2000 Inc. IT Operations Intern	May 2021 – Jul 2021
• Built a digital inventory tracking system for R&D operations, improving asset traceability and reducing manual errors.	Hyderabad, India
• Utilized Python for the backend APIs and PostgreSQL for the database.	

Technical Skills

Languages: Python, Java, SQL, R
AI/ML Model Development: PyTorch, Keras, Scikit-learn, Hugging Face, XGBoost, SHAP, TensorFlow, Model Training & Optimization, Model Evaluation & Quality Metrics, Hyperparameter Tuning
ML Infrastructure & Data Processing: Pandas, NumPy, Large-scale Data Processing, Data Pipelines
Specialized ML: NLP, Information Retrieval, Speech/Audio Annotation, Statistical Modeling
Cloud/Database: AWS (in progress), MySQL, Snowflake, PostgreSQL, MongoDB
Other: Git, Linux, CI/CD, Data Structures & Algorithms

Projects

Explainable Machine Learning for Alzheimer's Stage Classification	Oct 2025 – Present
• Trained and optimized multiclass models including deep neural networks, Logistic Regression, SVM, Random Forest, XGBoost for Alzheimer's stage prediction using blood gene expression and clinical data with 20K+ features.	
• Conducted systematic model evaluation using cross-validation, confusion matrices, and performance metrics. Applied SHAP explainability to interpret feature importance and validate biological relevance.	
• Optimized XGBoost through feature selection, hyperparameter tuning, and data processing techniques for high-dimensional datasets, improving model accuracy and reducing computational overhead.	
Clinical Text Summarization using T5 Transformer	Jul 2025 – Aug 2025
• Built end-to-end NLP pipeline using Python , PyTorch, Hugging Face Transformers for training and evaluating T5 models on 3700+ medical notes, implementing data processing workflows with Pandas , Scikit-learn.	
• Achieved 97% text compression through iterative model training and prompt optimization. Evaluated model quality via ROUGE metrics and human assessment. Visualized results using Matplotlib , Seaborn.	