Easha Meher Koppisetty

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PROFILE

Machine Learning Engineer with hands-on experience in Neural Networks, and Generative AI. Currently pursuing a Master's in AI at Northeastern University. Strong background in Computer Vision, NLP, and Data Science workflows, including model fine-tuning and data manipulation. Passionate about leveraging AI to enhance automation and data-driven decisions.

EDUCATION

Northeastern University 2024 – 2026 | Boston, MA
Master of Science in Artificial Intelligence
Relevant Coursework: Foundations of AI, Machine Learning, Deep Learning, Natural Language Processing, AI for HCI

Vellore Institute of Technology 2017 – 2021 | Vellore, India
Bachelor of Technology in Computer Science
Relevant Coursework: Database Management Systems, Data Analytics, Data Visualization, Image Processing

TECHNICAL SKILLS

Programming Languages: Python, R, C++, SQL, Java, React, Flutter

Machine Learning & AI: TensorFlow, PyTorch, Scikit-learn, Hugging Face, OpenCV, Knowledge Graphs, LLMs, GPT, BERT, T5, LLaMA

ML Deployment & Lifecycle: CI/CD, Model Optimization, Fine-tuning, Quantization, Distillation

Cloud & DevOps: AWS (Lambda, S3, DynamoDB), GCP, Azure, Docker, Kubernetes, Snowflake

Tools & Platforms: Git, Jenkins, Selenium, JIRA, AWS

WORK EXPERIENCE

Khoury College of Computer Sciences, Northeastern University Sep 2024 – present | Boston, MA
Graduate Teaching Assistant - Object-Oriented Design
- Facilitated student learning by conducting sessions on Software Design Patterns, SOLID principles, and System Architecture. Enabled students to develop scalable software solutions through hands-on projects.
- Organized and led workshops focused on system scalability, modular design, and API development, resulting in improved student understanding and application of modern software engineering practices.
- Supported students in identifying and resolving code issues, significantly enhancing debugging skills and Software Development practices.

Info Edge (India) Limited Jul 2023 – Dec 2023 | Bangalore, India
Senior Software Engineer
- Developed and deployed advanced AI/ML models to detect cheating during online exams by analyzing webcam feeds and detecting behavioral anomalies using Computer Vision and NLP. Enhanced accuracy by 30%, reducing false positives and improving proctoring efficiency.
- Improved fraud detection accuracy by designing adaptive learning algorithms that dynamically flag suspicious behavior, enabling faster intervention and reduced manual review by 40%.
- Developed automated monitoring pipelines leveraging Python, OpenCV, and TensorFlow, enabling scalable and real-time fraud detection for high-volume exam sessions.

Pharmeasy (Threpsi Solutions Private Limited) Jul 2021 – Jul 2023 | Bangalore, India
Software Engineer
- Analyzed and processed large-scale medical data from diverse sources, including doctor prescriptions and lab reports, ensuring data integrity and adherence to healthcare standards.
- Engineered ETL pipelines using Python, SQL, and AWS to extract, transform, and load structured and unstructured data, streamlining data analytics and enhancing data quality for downstream processing.
- Developed OCR models using deep learning techniques to digitize handwritten prescriptions, achieving high accuracy and enabling automated medicine mapping and dosage recommendations.
- Applied advanced NLP techniques to extract key medical insights from textual documents, supporting improved patient history tracking and prescription validation.

PROJECTS & LEADERSHIP

Analyzing Cricket: Shot Recognition & Similarity
- Built a Machine Learning pipeline using EfficientNetV2 and OpenCV to classify cricket batting shots, achieving 94% accuracy.
- Implemented motion analysis & feature extraction by processing 1,000+ video frames using MediaPipe Pose Estimation and Scikit-image, enabling player style recognition.
- Optimized AI-powered classification pipelines using TensorRT and ONNX Runtime, improving inference speed by 35%, ensuring real-time analysis for coaching applications.

Bayesian Uncertainty Quantification in Medical QA Systems
- Fine-tuned LLM models (LLaMA 2, Mistral, BERT) on MedQA (50K+ samples) using Hugging Face Transformers and PyTorch, achieving 84% test accuracy, outperforming the baseline.
- Integrated Monte Carlo Dropout for uncertainty estimation using TensorFlow Probability, optimizing entropy at 1.13, enhancing model reliability.
- Implemented LoRA fine-tuning with Hugging Face Accelerate, reducing GPU memory usage by 30% while maintaining model performance.

Marketing Analytics Automation for Ad Campaigns
- Built an automated reporting system using Google Ads API and Python to fetch daily ad performance metrics.
- Developed Tableau dashboards to track CTR, CPC, and ROAS across multiple campaigns.
- Provided actionable insights for ad spend optimization, reducing wasted ad spend by 15%.