Ahmad M

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Education

Anna University
B.Tech in Artificial Intelligence and Data Science

Aspire Institute
Organizational Leadership Training

Experience

Tamil Nadu Skill Development Corporation   May 2024 – July 2024
Data Scientist

– Implemented AI-driven workforce analysis system for youth development programs, impacting 10,000+ participants
– Built ML models for skill gap analysis achieving 85% prediction accuracy on historical data
– Optimized ETL pipelines using PySpark, reducing processing time by 40% for large-scale datasets
– Enhanced curriculum design with industry-relevant AI/ML components, improving job placement rates

Aalim Muhammed Salegh College of Engineering   Jan 2023 – Apr 2024
Machine Learning Researcher

– Researched state-of-the-art LLM architectures and fine-tuning methodologies
– Enhanced model inference time by 25% through implementation of efficient evaluation framework
– Reduced transformer model memory usage by 30% via advanced optimization techniques

Projects

Research Paper Implementations

– Implemented BERT and ResNet architectures using PyTorch, achieving 94% accuracy on benchmark datasets
– Optimized training pipeline using mixed-precision and gradient accumulation techniques
– Improved model performance by 15% through implementation of custom attention mechanisms

Flight Data Analytics Platform

– Developed full-stack Python/Flask/React platform for real-time flight analytics processing
– Engineered system to handle 100K+ daily records with 99.9% uptime guarantee
– Optimized database queries resulting in 60% reduction in response time

Technical Skills

Languages: Python, SQL, Rust

Frameworks & Libraries: PyTorch, JAX, Flask, Hugging Face Transformers, React

ML/DL: Computer Vision, Natural Language Processing, LLMs, Transformer Architecture

Tools & Platforms: Git, Docker, AWS (EC2, S3, SageMaker), Azure AI Services

Certifications & Achievements

Microsoft Certifications: Azure AI Engineer Associate, Data Scientist Associate, Fabric Analytics Engineer Associate, Azure AI Fundamentals

Honors: Macquarie Scholar, GenAItechLab Fellow, Aspire Fellow