

# DHAIRYA GUNDECHIA

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## EDUCATION

### Northeastern University

Master of Science in Software Engineering Systems

Relevant Coursework: Prompt Engineering, Practical Applications of Generative AI

### Dhirubhai Ambani Institute of Information and Communication Technology

Bachelor of Technology in Information and Communication Technology

Relevant Coursework: Artificial Intelligence, Computer Vision, Reinforcement Learning

Arlington, VA

Sep 2023 – Apr 2025

GPA: 4

Gandhinagar, India

Aug 2019 – May 2023

## EXPERIENCE

### Futures First

Financial Market Analyst Intern

Gurugram, India

Jan 2023 – Jul 2023

- Engineered algorithmic trading strategies, reducing drawdowns by 20% and boosting annual returns by 10% across commodity futures
- Built predictive statistical models, improving forecasting accuracy by 15% for intra-day trading
- Developed risk management tools that cut portfolio volatility by 25% and automated real-time market news analysis workflows

### Monocept

Software Engineer Intern

Hyderabad, India

May 2022 – Jul 2022

- Architected and deployed front-end performance enhancements for ICICI Lombard's website, achieving a 30% page load time reduction
- Implemented Angular lazy loading, code splitting, and server-side rendering, boosting rendering performance by 40%
- Developed custom caching layers, decreasing server response latency by 35% and increasing application throughput by 20%

## PROJECTS

### MatchPoint – Resume Screening App

- Designed and deployed a scalable resume screening system powered by a fine-tuned Llama 3.2 language model
- Engineered asynchronous data pipelines for processing resumes and job descriptions, increasing processing efficiency by 30%
- Architected cloud-native deployment on AWS ECS with integrated S3 storage, achieving 99.9% system uptime
- Fine-tuned model prompts and retrieval strategies, improving feedback relevancy and matching accuracy by 30%

### Tool-Use-Agent – Autonomous AI Agent System

- Built an LLM-powered autonomous agent capable of multi-step reasoning with dynamic tool selection
- Reduced execution time for multi-hop tasks by 25% using action-planning optimizations
- Designed modular framework for easy integration with APIs and knowledge bases

## PUBLICATIONS

### Adaptive Integrated Layered Attention (AILA)

- Proposed an efficient transformer-based architecture enhancing performance for NLP and vision tasks

## SKILLS

**Languages & Frameworks:** Python, SQL, FastAPI, React.js, TypeScript, Docker

**AI/ML & Libraries:** TensorFlow, PyTorch, Hugging Face Transformers, LangChain, Prompt Engineering

**Cloud & Deployment:** AWS (ECS, S3, Bedrock), Azure AI, Kubernetes

**Data Engineering:** Apache Spark, Data Pipelines, Model Deployment, ETL Processes