

Mohamed Ifreen

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EDUCATION

Boston University <i>MS Artificial Intelligence</i> CGPA: 4.0/4.0	Boston, USA Sep 2024 – Jan 2026
<ul style="list-style-type: none">– Fall 2024: Intro to NLP (CS 505), Machine Learning (CS 542), Artificial Intelligence (CS 640)– Spring 2025: Tools for Data Science (CS 506), Deep Learning (CS 523), Image & Video Computing (CS 585), Directed Study (CS 995)– Fall 2025: Advanced Computer Vision (CS 599)	
SSN College of Engineering (Anna University) <i>B. Tech. Information Technology</i>	Chennai, India Jun 2016 – Apr 2020

TECHNICAL SKILLS & AWARDS

- **Technical Skills:** Python, Transformers, NLP, PyTorch, TensorFlow, SQL, AWS, Machine Learning, Deep Learning, Reinforcement Learning, Streamlit
- **Certifications & Awards:** Certified Google TensorFlow Developer, AWS Cloud Practitioner, Inter-College Programming Winner, Hackathon Winner

WORK EXPERIENCE

Amazon <i>Applied Scientist Intern</i>	Seattle, USA Dec 2025 – Present
<ul style="list-style-type: none">– Conducting research in applied machine learning.	
Boston University GDP Center (DATA Team) <i>Research Assistant</i>	Boston, USA May 2025 – Dec 2025
<ul style="list-style-type: none">– Architected deep learning solutions for advancing policy research initiatives.– Automated data and modeling workflows to significantly reduce manual effort.	
Boston University <i>Graduate Teaching Assistant</i>	Boston, USA Jan 2025 – May 2025
<ul style="list-style-type: none">– Supported instruction for CS 542 (Machine Learning) and CS 541 (Applied ML).– Conducted lab sessions and reinforced core ML concepts.	
Rapid Acceleration Partners <i>Senior Machine Learning Engineer</i>	Chennai, India Sep 2023 – Aug 2024
<ul style="list-style-type: none">– Led deep learning POCs resulting in multi-million dollar contracts.– Built complaint-analysis AI for Hussmann (Panasonic), enabling a \$3M engagement.– Developed voice analytics models reducing processing time by 100+ hours.	
LTIMindtree <i>Senior Data Engineer</i>	Bangalore, India Oct 2020 – Aug 2023
<ul style="list-style-type: none">– Implemented NLP pipelines for ticket mining, reducing manual workload by 60%.– Designed auto-tagging systems improving categorization speed by 40%.	

RESEARCH & PROJECTS

Bias Mitigation in Text-to-Image Models <i>Boston University</i>	Massachusetts, USA Nov 2025
<ul style="list-style-type: none">– Fine-tuned FLUX using LoRA (rank 4) on a curated 2.7k-image dataset across 135 professions; reduced gender and skin-tone bias using automated CLIP + LLaVA-Next evaluation over 300 samples.	
Empirical Study of Visual Token Indicators <i>Boston University</i>	Massachusetts, USA Jan 2025 – May 2025
<ul style="list-style-type: none">– Analyzed visual token indicators across multiple VLMs to identify redundancy and efficiency gains.– Investigated architectural improvements for visual token utilization.	
ITOps Auto Tagging <i>LTIMindtree</i>	Bangalore, India Aug 2022 – Sep 2022
<ul style="list-style-type: none">– Developed ensemble ML models to auto-classify IT tickets at scale.– Integrated Sentence Transformers to enhance category relevance scoring.	