

Mohamed Ifreen

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EDUCATION

Boston University

Massachusetts, USA

MS Artificial Intelligence | GPA: 4.0/4.0

Sep 2024 – Exp Dec 2025

- 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)

SSN College of Engineering (Anna University)

Chennai, India

B. Tech. Information Technology

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

Boston University GDP Center (DATA Team)

Massachusetts, USA

Research Assistant

May 2025 – Present

- Architecting **Deep Learning solutions** for advancing policy research.
- Responsible for **automating workflows** to minimize human effort.

Boston University

Massachusetts, USA

Graduate Teaching Assistant

Jan 2025 – Present

- Responsible for students of **CS 542 (Machine Learning)** and **CS 541 (Applied ML)**.
- **Teaching lab sessions** and supporting ML concept understanding.
- **Coordinating exams and grading tasks** efficiently.

Rapid Acceleration Partners

Chennai, India

Senior Machine Learning Engineer

Sep 2023 – Aug 2024

- Spearheaded deep learning POCs leading to **multi-million dollar contracts**.
- Developed complaint-analysis AI for Hussmann (Panasonic), enabling a **\$3M project**.
- Developed voice analysis models reducing insight processing time by **100+ hours**.
- Built ICD code mapping + summary generation system reducing scribing time by **70%**.

LTIMindtree

Bangalore, India

Senior Data Engineer

Oct 2020 – Aug 2023

- Implemented NLP models for ticket mining **reducing manual workload by 60%**.
- Built auto-tagging system **improving categorization speed by 40%**.

RESEARCH & PROJECTS

Bias Mitigation in Text-to-Image Models

Massachusetts, USA

Boston University

Nov 2025

- Fine-tuned FLUX using LoRA (rank 4) on a clean 2.7k-image dataset (135 professions, diverse ethnic/age groups) generated via SDXL-Lightning; achieved measurable reductions in gender & skin-tone bias using a fully automated CLIP + LLaVA-Next evaluation pipeline over 300 test samples.

Empirical Study of Visual Token Indicators

Massachusetts, USA

Boston University

Jan 2025 – May 2025

- Studying visual token indicators across multiple VLMs to improve model performance.
- Researching redundancy in visual tokens and methods to improve efficiency.

ITOps Auto Tagging

Bangalore, India

LTIMindtree

Aug 2022 – Sep 2022

- Developed ensemble ML model to auto-classify IT tickets, significantly reducing manual effort.
- Integrated Sentence Transformers to improve category relevance scoring.