

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 efforts.

Boston University

Massachusetts, USA

Graduate Teaching Assistant

Jan 2025 – Present

- Responsible for students of **CS 542 (Machine Learning)** and **CS 541 (Applied Machine Learning)**
- **Teaching the lab sessions** and guiding students in ML concepts.
- **Coordinating exams and grading tasks** efficiently.

Rapid Acceleration Partners

Chennai, India

Senior Machine Learning Engineer

Sep 2023 – Aug 2024

- Spearheaded deep learning projects, creating fast-tracked POCs, resulting in **multi-million dollar contracts**.
- Led AI system development for Hussmann (Panasonic) to analyze product complaints, providing insights based on serial numbers; resulting in a **\$3 million project**.
- Developed voice analysis models reducing processing time by **100+ hours**.
- Designed AI system for VirtueServe to map ICD codes and generate medical summaries, **reducing scribing time by 70%** and making the ICD mapping much efficient.

LTIMindtree

Bangalore, India

Senior Data Engineer

Oct 2020 – Aug 2023

- Implemented NLP models for ticket mining and extraction **reducing manual effort by 60%**.
- Developed ticket auto-tagging tool **improving the categorization time by 40%**.

RESEARCH & PROJECTS

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.
- Understand the redundancy in visual tokens and ways to make it more efficient.

ITOps Auto Tagging

Bangalore, India

LTIMindtree

Aug 2022 – Sep 2022

- Developed ensemble ML model to auto-classify tickets into various buckets reducing manual efforts.
- Integrated Sentence Transformers for category relevance.

Video Captioning System

Chennai, India

Anna University

Jun 2019 – May 2020

- Constructed a video captioning system with Object Detection and SOTA models, achieving 75% accuracy.