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   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

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.

Sentence Transformers   Bangalore, India
LTIMindtree   *Aug 2022 – Sep 2022*
- Recreation of Sentence Transformers paper to understand the role of cross entropy loss in optimizing the embedding space and the reasons behind it for aligning the embeddings together.

PROJECTS

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 2021 – Sep 2021*
- Constructed a video captioning system with Object Detection and SOTA models, achieving 75% accuracy.