Mohamed Ifreen

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EDUCATION

MS Artificial Intelligence   Boston University
Massachusetts, USA   *SEP 2024 – EXP DEC 2025*

B. Tech. Information Technology   SSN College of Engineering (Anna University)
Chennai, India   *JUN 2016 – APR 2020*

TECHNICAL SKILLS & AWARDS

Languages/Scripting: Python, Transformers, SQL, NoSQL, AWS, ML, DL

Tools & Frameworks: TensorFlow, PyTorch Hugging Face, Computer Vision, Pandas, Streamlit, Scikit-learn, Git

Certifications: Certified Google TensorFlow Developer, Certified AWS Cloud Practitioner, Advanced NLP

Awards: Beacon Award, Einstein Award (Gen AI Contributions), Neuro-Hackathon Winner, Competitive Programming

WORK EXPERIENCE

Senior Machine Learning Engineer (ML II)   RAPID ACCELERATION PARTNERS
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**.
- Engineered AI voice analysis for Denave to evaluate sales call sentiment, saving **100+ hours monthly**.
- 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.

Senior Data Engineer (SDE)   LTIMINDTREE
JUN 2021 – AUG 2023
- Led end-to-end ML model development, from requirement gathering to deployment with code optimizations.
- Implemented NLP-based models for ticket mining and attribute extraction, **reducing manual efforts by 60%**.
- Created Auto-Tagging Tool for Support Tickets, **improving resolution and categorization time by 40%**.

Graduate Engineer Trainee (GET)   LTIMINDTREE
OCT 2020 – JUN 2021
- Underwent hands-on training in Statistics, Data Analysis using Python, and code optimizations.

PROJECTS

ITOps Application Tickets Auto Tagging | *Hugging Face, TensorFlow, Python*   AUG 2022 – SEP 2022
- Built an ensemble ML model to auto-classify tickets raised by users based on various fields.
- Utilized Sentence Transformers Models to classify tickets based on category relevance.
- Outcome: **Successfully incorporated across LTIMINDTREE**.

Application of NLP-based Architecture for Custom Datasets | *LSTM, GRU*   JUN 2021 – SEP 2021
- Built baseline models based on LSTM and GRU architectures for Infra Load Prediction use cases.
- Achieved significant quality improvement, leading to **organization-wide implementation at LTIMINDTREE**.

Video Captioning System | *Object Detection, SOTA Models*   JUN 2019 – APR 2020
- Constructed a video captioning system from scratch, achieving a **captioning accuracy rate exceeding 75%**.
- Accomplished rigorous Object Detections and Textual Intelligence with SOTA Models.