

# KEERTHI GOPIREDDY



[keerthi16101996@gmail.com](mailto:keerthi16101996@gmail.com)



5126984660



Texas



<http://www.linkedin.com/in/lakshmi-keerthi>



[https://lakshmi-keerthi.github.io/my\\_portfolio/](https://lakshmi-keerthi.github.io/my_portfolio/)



<https://github.com/lakshmi-keerthi>

## PROFESSIONAL SUMMARY

Experienced Data Scientist with 6 years of professional experience, including 4 years in the AI/ML field and 2 years as a student assistant. Pursued Master of Science in **Artificial Intelligence** at the University of North Texas, with a focus on Machine Learning. Actively seeking opportunities to implement my learnings in real-world business problems while continuously learning and evolving in the field.

## EDUCATION

University of North Texas | Denton, Texas | Jan 2023 - Dec 2024

Master of Science, **Artificial Intelligence** | **CGPA: 4.0**

Jawaharlal Nehru Technological University | Hyderabad, India | Jul 2014 - May 2018

Bachelor of Technology, Electronics and Telematics

## SKILLSET SPOTLIGHT

- |  |                                 |                   |
|--|---------------------------------|-------------------|
| ▪ Python Programming   | ▪ Scikit-Learn                  | ▪ SQL, HiveQL     |
| ▪ MATLAB   | ▪ NumPy, Pandas, OpenCV, NTLK   | ▪ Tableau         |
| ▪ Machine Learning Algorithms<br>(Supervised and Unsupervised) | ▪ Matplotlib, Seaborn           | ▪ Power BI        |
| ▪ Neural Networks  | ▪ TensorFlow, Keras and PyTorch | ▪ Dataiku         |
| ▪ Natural Language Processing                                  | ▪ Descriptive Statistics        | ▪ RapidMiner      |
| ▪ Computer Vision  | ▪ Inferential Statistics        | ▪ MLOps           |
|  | ▪ Data Analytics                | ▪ Microsoft Excel |

## WORK EXPERIENCE



**Wipro Technologies:**

**Data Scientist**

**Aug 2021 to Dec 2022**

- Client - *Huawei Ads Platform*: Analysed and prioritized 150+ features post exploratory data analysis along with ensemble-based feature selection methods
- Implemented *early stop* and performed effective *hyper-parameter tuning* for an advertisement type and observed significant improvement on real-time data
- Fine-tuned predictive models, including Deep and Cross Network and FiBiNET, achieving an AUC score of 0.863 for predicting ad click-through probabilities
- Extracted data using HiveQL on regular basis from large datasets in HDFS to identifying patterns and insights to support data-driven decisions
- Played a major role in identifying *automation scope* and automation of capturing KPI from logs using Python scripts
- Client - *Citi Bank*: Automation and streamlining data cleaning and pre-processing using customer and beneficiary databases using Dataiku Platform



**Amazon:**

**Data Quality Specialist**

**Aug 2018 to May 2021**

- Worked under Amazon Robotics in Amazon Vision Operating Centre (AVOC) currently known as Go-Artificial Intelligence (Go-AI) handling 5+ AI/ML based projects
- Responsible for synchronizing the needs of machine learning models with the standard operating procedure used in the project to identify the ground truth
- Streamlined trouble ticket process to eradicate low confidence ML outputs which increased the probability of identifying the root cause by 30% and decreased manual effort by ~20%
- Solely worked for *Canvas*, a robot used to transport items in Fulfilment centres, focusing on visual inspection, image segmentation and feature extraction to build a novel model using neural networks
- Worked on pre-processing and interpretation of data for 5 visual inspection ML models which include damage detection, human detection, failure mode detection, compliance and safety detection.
- Automated mail triggers using SharePoint and weekly reports sent to fulfilment centers decreasing manual effort by ~70%

## ACHIEVEMENTS AND ACCREDITATIONS

---

- Merit Certificate with Excellent Grade in '**Advanced Certification Program in Artificial Intelligence and Machine Learning**' organized by IIIT Hyderabad and Talent Sprint
- Completed '**Lean Six Sigma Yellow Belt Certification**' by ACES Academy at Amazon
- Awarded with '**Champion IDS Research Analyst**' in Q2 2020 at Amazon
- Awarded with '**Champion Auditor - Silver**' in Q3 2020 at Amazon
- Accredited as the '**Most Valuable Player**' in the audit team for the year 2020 at Amazon
- Awarded with '**Champion Auditor - Gold**' in Q1 2021 at Amazon
- Recognized as '**Outstanding Contributor**' in February 2022 by the client (Huawei)

## KEY MACHINE LEARNING PROJECTS

---

Participated and completed 8 hackathons as a part of '**Advanced Certification Program in Artificial Intelligence and Machine Learning**' organized by IIIT Hyderabad and Talent Sprint. Main Hackathons include:

- **Literacy rate prediction | Colab using Python | Jan 2020**  
The goal of this Mini-Hackathon was to predict whether the literacy rate was high/ medium/ low in the different districts of India using multiple datasets and comparing the performance of multiple machine learning algorithms.
- **Speech classification | Colab using Python | Mar 2020**  
The objective of this Mini-Hackathon was to identify and classify simple vocal utterances such as 'yes' or 'no' using audio samples and tree-based machine learning algorithms

Developed multiple machine learning and deep learning models as a part of my Master's program on **Artificial Intelligence** at the **University of North Texas**. Key projects include:

- **Leveraging Deep Learning Models for Bird Species Classification | Deep Learning | Fall 2023**  
Focusing on Convolutional Neural Network (CNN), ResNet, DenseNet, and Vision Transformer (ViT) models involving training on feature-augmented image data to capture complex visual characteristics. This was implemented using Python programming language on the Google Colab
- **Generating Synthetic Faces using Generative Adversarial Networks | Machine Learning | Spring 2023**  
Developed a generative model using pre-trained models capable of producing realistic, high-quality synthetic faces indistinguishable from real faces. This was implemented using Python programming language on the Google Colab.
- **Pneumonia Detection using Neural Network | Software Development for AI | Spring 2023**  
Trained and improved the ability of a Convolutional Neural Network to identify if a patient has pneumonia using X-ray images. Created a local website to display the prediction when a new X-ray image is uploaded. Training of the model was done using Python programming language and deployment of the model to a local webpage was done using Streamlit.

## CO-CURRICULAR ACTIVITIES

---

- Worked as a **Digital Imaging Student Assistant** (Feb 2023 - Dec 2024) at the University of North Texas:
  - Captured metadata for 100+ historical letters
  - Digitized 20+ archival books and ledgers with perfection.
- Participated in **MATLAB Arduino** course and completed a mini project on CNC controller
- Completed **Rapid Miner Machine Learning** Professional and Master Certification
- Participated in '**Ethical Hacking**' workshop conducted in Technocruise Hyderabad by Techkriti, IIT Kanpur