http://www.linkedin.com/in/lakshmi-keerthi https://github.com/lakshmi-keerthi https://www.kaggle.com/lakshmikeerthi

KEERTHI GOPIREDDY

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PROFESSIONAL SUMMARY

Dedicated enthusiast and practitioner in the fields of ***Artificial Intelligence*** with 4 years of professional experience, Amazon as a Quality Analyst for 2.8 years and Wipro as a Data Scientist for 1.2 years. Currently pursuing my Masters in ***Artificial Intelligence*** at the University of North Texas. 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 | July 2014 - May 2018
Bachelor of Technology, Electronics and Telematics

SKILLSET SPOTLIGHT

- Python Programming
- SQL
- MATLAB
- Tensorflow, Keras and Pytorch
- Machine Learning Algorithms
- Neural Networks
- Natural Language Processing
- Tableau
- Power BI
- Dataiku
- RapidMiner
- MLOps
- Microsoft Excel

WORK EXPERIENCE

Wipro Technologies: ***Data Scientist*** ***Aug'21 to Dec'22***

- Identified the importance of 150+ features using manual *feature selection methods* and ensemble-based feature selection methods - *Huawei Client*
- Worked on implementation of *early stop* and performed effective *hyper-parameter tuning* manually for one advertisement type and observed significant improvement on real-time data - *Huawei Client*
- Played a major role in identifying *automation scope* and automation of capturing KPI from logs, addition and removal of features using Python scripts - *Huawei Client*
- Data cleaning and pre-processing of customer and beneficiary databases using Dataiku Platform - *Citi Bank Client*

Amazon Development Centre: ***Quality Specialist*** ***Aug'18 to May'21***

- Worked under Amazon Robotics in Amazon Vision Operating Centre (AVOC) currently known as Go-Artificial Intelligence (Go-AI) handling multiple 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
- Worked as a TRON analyst initially responsible for *reinforcing accurate predic*tions when the pre-trained machine learning model is low confident by visually inspecting videos followed by *root cause analysis*
- Played a major role in *streamlining the Trouble Ticket* (TT) process as a part of the Dislike Mechanism - one of the major root causes of inaccurate model predictions
- Solely part of *Canvas program* from quality team to work on visual inspection, image segmentation and feature extraction to build a novel model using neural networks
- Worked on pre-processing of data for 5 visual inspection ML models which include damage detection, human detection as a part of social distancing program, failure mode detection, compliance and safety detection.

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ACHIEVEMENTS AND ACCREDIDATIONS

- 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 | March 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

Worked on multiple projects machine learning and deep learning projects 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

- Working as a **Metadata Writer** (Feb 2023 - Dec 2024) at the Digital Libraries of the University of North Texas responsible for understanding historical letters and converting them to metadata
- 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