# AMITHA AKEPATI

Irving, TX-75039 | LinkedIn: Amitha-Akepati | amitha.akepati00@gmail.com | +1(469)-318-8841 | Portfolio: Amitha

Overall, 3 years real time experience with resourceful and analytics Data Science graduate with a strong background in Computer Science. Passionate about harnessing the power of data to drive business decisions and seeking a challenging role where I can contribute my skills in Data Analytics and Software Development.

## EDUCATION

**University of Texas at Arlington, Arlington, TX**                                   January 2023 – May 2024
Master's in Data Science

**Annamacharya Institute of Technology and Sciences, Rajampet, INDIA**            June 2017 – July 2021
Bachelor's in Computer Science and Engineering

Relevant Courses: **P**robability and Statistics, **D**ata Science, Data Science Applications, **M**achine Learning, **A**rtificial Intelligence, **D**ata Mining and Data Warehousing, **B**ig Data Analytics, **M**obile Application Development, **D**atabase Management Systems, **S**oftware Project Management, **W**eb Programming, **C** Programming, C++, **J**ava, **P**ython.

## TECHNICAL SKILLS

**Programming:** Python, Golang, HTML, CSS, SQL, MySQL, SQLite3, Windows.

**Machine Learning | Artificial Intelligence:** Supervised Learning, Unsupervised Learning, Reinforcement Learning, Classification, Regression, NumPy, Pandas, Matplotlib, TensorFlow, Pytorch, Keras, Deep Learning, Computer Vision, Pattern Recognition, Natural Language Processing, Generative AI, LLMs, LangChain.

**Technical Data Skills:** Data Analysis, Data Visualization, Data Mining, Exploratory Data Analysis, Statistical Analysis, Data Handling, Data Extraction, Data Cleaning, Data Manipulation.

**Tools:** Hewlett – Packard Service Bus, Visual Studio Code, PyCharm, Anaconda, Jupyter Notebook, Spyder, Microsoft Office -Excel, Word, PowerPoint, Outlook, ETL, PowerBi, Alteryx, Agile, GIT.

**Soft Skills:** Problem Solving, Analytical Skills, Work – Ethic, Self – Motivated.

## WORK EXPERIENCE

**Data Research Intern – TLT-Tomorrow's Leaders Today, Frisco, TX**            February 2024 - Present
- Collected and analyzed state-specific data on foster care, adoption, and underserved youth in Texas using mixed methods to examine community dynamics, socioeconomic health indicators, and budgeting/financing practices for summarization in memos and reports.

**Graduate Research Assistant – University of Texas at Arlington, TX**            January 2023 - Present
- Collaborated with Dr. Aera Kim Leboulluec on **Generative AI** for Agricultural Research.
- Utilized Machine Learning, Deep Learning, Statistics, and Data Analytics to research and develop Generative AI LLM models for agricultural applications including predictive crop yield modeling.

**Associate Professional Software Engineer – DXC Technology, Bangalore, INDIA**            June 2021 – August 2022
- Implemented and managed **Hewlett-Packard Service Bus** web tools, facilitating self-service message management and tracking. Orchestrated integration and optimization of HPSB web tools for efficient industrial data deployment.
- Developed and optimized critical functionalities within Hewlett-Packard Service Bus web tools to enhance industrial data transmission efficiency and reliability.

## CURRICULUM PROJECTS

**Personalizes Travel Companion**                                   Fall 2019
- An Intelligent Conversational Agent for Trip Planning Hackathon Smart Bridge in collaboration with IBM.
- Developed a Chatbot using **IBM Watson** to simplify travel planning. Demonstrated chatbot to 100+ users at hackathon received feedback on usability from 80% of testers.

**AI Pandemic Support**                                   Summer 2021
- Developed and implemented a real-time face mask detection model using **Convolutional Neural Networks** that achieved 93.88% accuracy and 0.94 F1 score for precision and recall in identifying and localizing face masks.

**Exploratory Data Analysis and Predictive Modeling**                                   Spring 2023
- Leveraged Python, OpenCV, TensorFlow, Keras to develop real-time face mask detection model with CNNs achieving 93.88% accuracy, and utilized Python, Jupyter Notebook, Matplotlib, Seaborn for exploratory data analysis and predictive modeling attaining 0.82 R-squared.

**Intelligent Indian Railway Reservation System with Python and SQLite3**                                   Summer 2023
- Developed an intelligent Indian railway reservation system with Python, SQLite3, and Python GUI achieving 25% better user satisfaction, 98% data integrity, and streamlined ticket booking management.

Other projects, Achievements and important concepts learnt:
- Go Fish Card Game Implemented for 2 to n number of players.
- Expense 8 puzzle game developed using BFS, DFS, UCS, A* Search, Greedy Search Algorithms in Artificial Intelligence.
- GOOGLE FooBar challenge – Finished 5 levels, An Invitation only coding challenge presented by GOOGLE.

Certifications:
- Microsoft Azure AZ-900 Certification.
- Alteryx Designer Core Certification.
- PowerBi by PWC Certification.
- IBM Python 101 for Data Science.
- Game Development using PyGame.