KEERTHANA SRINIVASAN

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EDUCATION

Master of Science (Data Science) **at University of North Texas**, Denton, Texas   December 2025(GPA: 4.0/4.0)
Bachelor of Technology (Mechanical Eng) at **Anurag University**, Telangana, India   2019 – 2023 (GPA: 3.36/4.0)

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant, University of North Texas, Denton, TX   (August 2024 – Present)
- Assisting in courses related to Software Engineering and AR/VR technologies.
- Supporting students with lab assignments, projects, and virtual and augmented reality coursework.
- Conducting review sessions and guiding key software engineering concepts and AR/VR development tools.
- Facilitating hands-on experience with VR/AR systems and their integration into software applications, promoting innovative thinking among students.

Machine Learning Research Assistant, University of North Texas, Denton, TX   (January 2024 – Present)
- Conducting a literature review on chatbots for IDD patients.
- Developing and testing chatbot models for improved accessibility and communication.
- Applying the RAFT technique to enhance chatbot performance.
- Contributing to a research paper on challenges and solutions in this field.

Application Development Associate, Accenture, Bengaluru, India   (June 2023 – January 2024)
- Developed and deployed Lightning Web Components to enhance user experience.
- Integrated data analysis into Salesforce apps, improving client workflows.
- Built a churn prediction model, enhancing customer retention.
- Automated reports and visualizations using Tableau for streamlined client reporting.

Intern – Java and Web Application Development, LTIMindtree, Hyderabad, India   (March 2023 – May 2023)
- Gained practical experience in Java programming and web app development.
- Built a data pipeline using Python for ETL processes in a client project.
- Developed data-driven dashboards using PowerBI for performance insights.
- Implemented a recommendation engine, enhancing personalized content for users.

TECHNICAL SKILLS

Programming and Development: Python, Java, C++, C, MATLAB, PHP, HTML, CSS, Streamlit, Unity (C#).
Data Science and Cloud: SQL, Tableau, Power BI, Excel (Pivot tables and VLOOKUP), AWS, Hadoop, Spark, Snowflake.
Machine Learning and DevOps: Gen AI, TensorFlow, PyTorch, Hugging Face, Keras, Scikit-Learn, Agile Methodologies
AR/VR & 3D Development: Unity, MRTK3, Vuforia, Photon (Multiplayer VR), ARCore, ARKit.

ACADEMIC PROJECTS

- AI Assistant for Doctors and Patients using Google's Gemini Pro
Built an AI-powered assistant using Google Gemini Pro LLM for medical image analysis, providing real-time diagnostic insights. Enhanced doctor-patient communication by generating treatment recommendations based on medical data.

- Fraud Detection in E-Commerce Transactions
Designed a machine learning model using Random Forest and XGBoost to detect fraudulent e-commerce transactions. Implemented feature engineering and risk analysis to improve accuracy and visualized fraud trends through an interactive dashboard.

- Mobile AR/VR Application for UNT
Developed an AR-based indoor navigation and evacuation app using Unity, and Cesium, providing real-time 3D spatial guidance. Integrated a chatbot for navigation assistance and multiplayer support using Photon for collaborative experiences.

- Line Follower and Obstacle Avoidance Robot
Created an autonomous robot using Arduino and machine learning-based sensor processing for navigation and obstacle detection. Designed a remote monitoring interface and conducted testing to enhance performance in dynamic environments.

- Electro-Mechanically Activated Proof of Life Transmitter for Cube Satellite
Engineered a Proof of Life Transmitter using MATLAB and Arduino, integrating microprocessors for real-time data communication. Optimized the system for seamless hardware-software integration and reliable satellite signal transmission.

ACHIEVEMENTS

- First Prize in Paper Presentation on 'A Review on Functionally Graded Materials' (Osmania University).
- First Prize in Project Expo on 'Electro-Mechanically Activated Proof of Life Transmitter for CubeSat'.
- Machine Learning Specialization Certificate by DeepLearning.ai (By Andrew Ng)
- First Prize in Debate (IIT-Hyderabad).
- Certificate of Completion in 'Data Analytics and Visualization Virtual Experience' (Accenture).
- Certificate in The Data Science Course: Complete Data Science Bootcamp (Udemy).
- Participation certificates in Posture Presentation, Project Expo, and SolidWorks workshop (Anurag University).
- Participation certificate in Business Analytics Hackathon – UNT ITDS Department.