KEERTHANA SRINIVASAN

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SUMMARY

Data Science and AI/ML professional with 2+ years of experience in predictive modeling, deep learning, NLP, intelligent chatbots, and real-time decision systems. Proficient in Python, SQL, TensorFlow, and data visualization, with a strong foundation to build scalable, data-driven solutions across healthcare, e-commerce, and AR/VR domains.

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.

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant, University of North Texas, Denton, TX (August 2024 – Present)
- I assist students with Unity, MRTK3, and HoloLens to build AR/VR applications.
- I lead review sessions on software engineering topics like OOP, SDLC, and Git.
- I support debugging and optimizing C# scripts for interactive XR projects.
- I mentor students in integrating real-time AR/VR features and design thinking.

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.

ACADEMIC PROJECTS

- AI Assistant for Doctors and Patients using Google's Gemini Pro
Built an AI-powered assistant using Gemini Pro for medical image analysis, delivering real-time diagnostic insights. Used safety filtering and prompt engineering to generate responsible, structured treatment suggestions. (Link)

- Fraud Detection in E-Commerce Transactions
Built an ML model using Random Forest and XGBoost to identify fraud, with feature engineering and risk analysis. Visualized trends via an interactive dashboard. (Link)

- 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. (Link)

- EEG-Based Stress & Anxiety Monitoring Using Emotiv and Virtual Reality
Leveraging Emotiv EEG (Alpha, Beta, Theta) signals with real-time feature extraction and ML (SVM, Random Forest) to classify mental states and dynamically adapt Unity-based VR environments for biofeedback-driven intervention.

- 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.

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)