

KOTA KEERTHANA

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EDUCATION

University of Texas at Arlington
Master of Science in Computer Science

Arlington, Texas
Aug 2023-Present

Malla Reddy Engineering College
Bachelor of Technology in Computer Science

Hyderabad, India
June 2017 – July 2021

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant

Arlington, Texas
Aug 2024-Present

- Assisted the professor with course management tasks, including grading assignments and exams, and providing student feedback. Played a key role in researching course topics, analyzing relevant materials, and contributing valuable insights to enhance lecture content. Additionally, supported the development of course materials and facilitated interactive sessions to improve student engagement.

Accenture

Hyderabad, India

Custom Software Engineering Associate

Sep. 2021 – May 2023

- Identified and resolved accessibility issues in web applications to ensure compliance with web accessibility standards and best practices.
- Conducted accessibility testing using NVDA screen reader, identifying and fixing issues related to keyboard navigation, ARIA attributes, and colour contrast.
- Resolved SAPCONS and double invoice issues, managing financial discrepancies and enhancing accuracy.
- Contributed SQL migration efforts, optimizing database performance and ensuring data integrity.
- Diagnosed and rectified software bugs, resulting in a substantial improvement in application reliability.
- Engineered and implemented an alert system, ensuring timely notifications for critical events.

NSLHub (Brane Enterprise)

Hyderabad, India

Software Engineering Intern

Feb. 2021 – Aug 2021

- Managed development pipelines with Git, Postman, and Swagger, while researching and resolving technical issues.
- Applied Agile methodologies to improve team collaboration, testing, and on-time project delivery.
- Researched and resolved technical issues, contributing to robust software solutions.

PROJECTS

Classifying Alzheimer's Disease

- Developed a deep learning model using ResNet50, EfficientNetB0, and ensemble methods (Random Forest, XGBoost) to classify Alzheimer's disease stages.
- Utilized MRI scans from the OASIS dataset to improve early diagnosis.

Liver Cirrhosis Detection

- Designed a predictive model leveraging machine learning algorithms to detect early-stage liver cirrhosis, improving early intervention outcomes.

Market Analysis of Superstore with Time Series

- Developed insights to optimize supply chain efficiency and sales strategies. Performed time series analysis to assess market trends and forecast product demand across specific locations.

Crime Data Analysis and Prediction of Perpetrator Identity using Machine Learning Approach

- Developed a crime pattern detection model to enhance law enforcement investigation efficiency.
- Utilized machine learning algorithms to predict perpetrator descriptions from crime scene data.

SKILLS

Databases: MYSQL, SQL SERVER, MongoDB

Languages: C, C++, C#, Java, Python, JavaScript, Typescript, Node.js

Web Technologies: HTML, CSS

Software Engineering: Agile & Scrum, API Development, Git

Productivity Tools: Microsoft Office (Excel, Word, PowerPoint)

Development Tools: Eclipse IDE, Visual Studio, Jupyter notebook, VSCode, NVDA

