

NETHRA RENJARLA

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Github: <https://github.com/Nethra-RS> | Available: Aug-May 2025 | Location: Arlington, Texas-76013

PROFESSIONAL SUMMARY

A diligent and ambitious Computer Science graduate seeking entry-level opportunities to leverage programming skills, web development expertise, and innovative problem-solving abilities in a dynamic work environment.

EDUCATION

The University of Texas at Arlington

Expected May 2025

MS in Computer Science

4.00

Arlington, Texas, U.S.A

Coursework: [Design and Analysis of Algorithms, Data Analysis & Modelling Techniques, Database Systems, Data mining, Cloud Computing and Big Data, Software Engineering I, Software Engineering II, Distributed systems, Artificial Intelligence I]

K S institute of technology

2019 - 2023

B.E in Computer Science

8.22

Bangalore, Karnataka, India

SKILLS AND LANGUAGES

- **Programming Languages:** C, C++, Java, Python, Javascript
- **Web Technologies:** HTML5, CSS3, Bootstrap, DJANGO
- **Database Technologies:** MySQL, SQL
- **Softwares / Tools:** Android Studio, Visual Studio, Windows, Anaconda, OpenGL, Tkinter
- **Certifications:** Introduction to Cloud Computing, Programming Fundamentals, Introduction to Web Development with HTML, CSS, JS

ACADEMIC PROJECTS

Classification of fetal health (UTA)

2023

- Crafted a **reliable model** for categorizing fetal health by integrating genetic, maternal, and monitoring data.
- Engineered the model with **KNN, SVM, Decision Tree, and Random Forest classifiers**, enhancing accuracy through meticulous data pre-processing and outlier management.
- Identified the Random Forest Classifier as superior, achieving a **groundbreaking 96.69% accuracy** in testing.

Diabetic Retinopathy

2022-23

- Developed and implemented a Diabetic Retinopathy detection system using **ResNet-50**.
- **Preprocessed and augmented** fundus images using **Python, Keras and TensorFlow 2.0** to improve model performance.
- Deployed the model using **Streamlit** on cloud platforms.
- Achieved **97.4% and 98.26% accuracy** on training and validation datasets in classifying the retinal images into 5 categories.

Personal Portfolio Website

2023

- Designed and developed a responsive personal portfolio website **using HTML, CSS, and JavaScript**.
- **Utilized** CSS animations and transitions to enhance the user experience and showcase projects.

Recruitment Database Management System

2021

- Led the development of "**HIRE-ME**," connecting fresh graduates, corporations, students, and colleges for streamlined job recruitment.
- Designed and managed a **robust database system** for efficient job listing, applicant tracking, and college partnerships.
- Improved recruitment processes by enabling **effective communication** between employers and job seekers.

INTERNSHIPS

Compsoft technologies

Full-stack Web Developer

2022

- Worked on "Book Review Website" project, focused on **creating** a fully functional website for a client.
- **Collaborated with a team of developers and designers** to design and develop **functional web pages** aligned with the project's objectives.
- Demonstrated **expertise in database management**, including **data collection, sorting, and storage, to ensure efficient data handling**

Rapsol technologies - AIDS domain

2022

- Designed and implemented a "Real-time object detection system" using **Python, OpenCV, and the YOLOv3 model**.
- Developed Python scripts to capture video feeds from various sources and **process** them for object detection in real-time.
- Utilized the **YOLOv3 model's pre-trained weights** for efficient and **accurate** object detection across a wide range of classes.

EXTRACURRICULAR ACTIVITIES

- UTA Hack- participated in hackathon organized by UTA. 2023
- Sentinel hack 3.0- volunteering work for 24-hour state-level hackathon. 2022
- Hackathon- participated in code innovation series organized by Github & incubateIND. 2021