

RAHUL ASAM

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As a passionate and results-driven final-year Computer Science student, I possess a strong technical foundation in data structures, algorithmic problem-solving, machine learning, and web development. With extensive hands-on experience in building complex projects and developing innovative solutions, I am eager to continue applying my skills to impactful real-world challenges.

EDUCATION

Osmania University-CGPA-9.15/10.0
Bachelor of Engineering in Computer Science

Hyderabad, India
Nov 2021 - May 2025

WORK EXPERIENCE

Research and Development Intern, Tejas Networks

Jan 2025 -Present

- Developed and automated comprehensive test suites using python, for advanced switching features such as 802.1ad (Q-in-Q), Access Control Lists (ACL), and Spanning Tree Protocol (STP), ensuring protocol compliance and system stability.
- Identified critical defects via deep debugging, regression, and stress testing, boosting feature reliability.
- Optimized end-to-end testing by automating workflows and refining test logic, improving coverage and speed.

Data Science Intern, Solix Technologies

May 2024 - July 2024

- Developed a hybrid CNN+BiLSTM architecture for accurate handwritten text recognition, combining CNNs for feature extraction and BiLSTMs for sequential modeling. Built a document preprocessing pipeline for segmenting unstructured documents (e.g., cheques, receipts).
- Created a user-friendly Streamlit web app for real-time document processing, enabling automated extraction and classification of handwritten and digital content. Handled data preprocessing, model training, testing, and debugging to ensure system reliability.

ACADEMIC PROJECTS

ConnectFy: Reliable Offline Chat for All | Android Studio, Java/Kotlin, Bluetooth, Wi-Fi Direct, Mesh Networking, UI/UX

- Developing a robust app using Bluetooth, Wi-Fi Direct, and mesh networking technology to enable seamless peer-to-peer chat functionality without the need for internet connectivity.
- Building an intuitive and user-friendly UI on Android Studio with features like adaptive connectivity, message relay in mesh networks, and low-latency communication, leveraging Android SDK and networking APIs.

X-rays detection model | Python, tensorflow, neural networks, CNNs, Streamlit

- Built an advanced X-ray detection model using convolutional neural networks with over 90% accuracy, integrated with VGG16 and ResNet architectures.
- The model predicts various diseases from X-rays and provides a user interface for easy interaction with the results.

Deep GAN Features for Face Sketch Synthesis | Python, tensorflow, GANs, Image Processing, Streamlit

- Designed and implemented a UNet generator paired with a PatchGAN discriminator architecture to transform sketches into realistic images. Enhanced the model with attention and residual blocks, improving feature extraction and image fidelity.
- Showcased the ability of GANs to generate realistic images from sketches, highlighting advancements in images.

2048- Web development game | HTML, CSS, JS, MySQL

- Developed a full-on Web application on 2048 game serving multiple users and themes.
- Integrated a database to track and display user scores and data from previous plays on their next visit.

Social media account legit check | Python, tensorflow, ANN, pandas

- Built a machine learning model to identify fake social media accounts by analyzing username credentials and achieving high accuracy in classification.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL (MySQL, PostgreSQL), JavaScript, HTML, CSS, C#

Developer Tools: Git, Google Cloud Platforms, VS Code, Linux Commands, PyCharm, Eclipse, Jupyter

Machine learning: Classification algo, Regression, CNN, ANN, RNN, GAN, LSTM, Computer Vision

Libraries: Tensorflow, Keras, Pandas, NumPy, NLTK, Scikit-learn, Matplotlib, Seaborn, Pillow

ACHIEVEMENTS

- Secured a full merit-based scholarship for outstanding academic excellence during undergraduate studies.
- Consistently ranked among the top 3% of students at my university.