RAHUL ASAM

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Results-driven final-year Computer Science student with a strong foundation in statistics, data analysis, and machine learning. Eager to apply hands-on experience in building data pipelines, developing predictive models, and using Python and SQL to drive product insights at a large scale. Proven ability to translate complex data into actionable solutions through impactful internship and project experience.

EDUCATION

Osmania University Nov 2021 - May 2025
Bachelor of Engineering in Computer Science
CGPA: 9.15/10.0

WORK EXPERIENCE

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.

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.

ACADEMIC PROJECTS

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

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

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.

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 trans-form 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.

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.

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.

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