

RAHUL ASAM

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Results-driven Computer Science student with hands-on internship experience in data science, specializing in machine learning, data preprocessing pipelines, and developing analytical web applications. Eager to apply strong Python, SQL, and statistical modeling skills to analyze user behavior and inform product decisions at Meta. Proven ability to translate complex data into actionable insights through innovative projects and a passion for solving real-world challenges.

EDUCATION

Osmania University

Bachelor of Engineering in Computer Science

CGPA: 9.15/10.0

Nov 2021 - May 2025

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

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.

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.

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.

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.

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.

TECHNICAL SKILLS

- **Languages:** Python, Java, C/C++, SQL(mysql, PostgreSQL), JavaScript, HTML/CSS
- **Machine Learning:** Classification, Regression, CNN, ANN, RNN, GAN, LSTM, Computer Vision
- **Libraries:** Tensorflow, Keras, Pandas, NumPy, NLTK, Scikit-learn, Matplotlib, Seaborn
- **Developer Tools:** Git, Google Cloud Platforms, VS Code, Linux Commands, PyCharm, Jupyter

ACHIEVEMENTS

- Secured a full merit-based scholarship for outstanding academic excellence during undergraduate studies.
- Consistently ranked among the top 3