IRFAN SHAIK

Tenali, Guntur, AP

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Education

SRKR Engineering College   Nov. 2021 – July 2025
Bachelor of Technology in Information Technology   *Bhimavaram, AP*

Relevant Coursework

- OOP (Object-Oriented Programming)
- Data Structures
- Software Methodology
- Algorithm Analysis
- Operating System
- Computer Network
- Database Management

Experience

Henotic Pvt Ltd   Sep 2023 – Nov 2023
Machine Learning Intern   *Remote,AP*

- Faced with the challenge of assisting HR in making objective salary increment decisions, I aimed to develop a data-driven model to classify employees as eligible for raises.
- Built a disease-prediction-inspired ML pipeline in Python using Google Colab, applying data preprocessing and model comparison (Random Forest & Logistic Regression) with Scikit-learn and TensorFlow; added interpretability and modular design for scalability.
- Achieved 93% accuracy on test data and enabled actionable, performance-based salary recommendations via a scalable HR decision-support tool.

Projects

Human Emotion Prediction | *Python, TensorFlow, Google Colab*   **July 2024**

- Faced the challenge of poor accuracy in emotion detection on the FER2013 dataset; aimed to build a robust model to classify 7 human emotions.
- Fine-tuned a VGG-19 CNN in TensorFlow, applying preprocessing (normalization, augmentation, class balancing) to improve generalization and stability.
- Achieved significant gains in precision and recall; validated real-time performance through custom metrics (ROC, confusion matrix) and live facial testing.

Disease Prediction | *Python, TensorFlow, Google Colab*   **June 2024**

- Faced the challenge of automating diagnosis for multiple diseases (brain tumors, CKD, lung disease) using imaging data and aimed to design a unified deep learning system.
- Built and trained three ResNet-50 models via transfer learning, performing preprocessing, fine-tuning, and hyperparameter optimization to enhance model generalizability.
- Achieved 92% accuracy on test data, delivering a reliable, multi-disease classification system that demonstrated strong diagnostic performance.

Technical Skills

Languages: Python, C/C++, HTML/CSS, JavaScript, MYSQL
Developer Tools: VS Code, Pycharm, Google Collab,Google Drive
Technologies/Frameworks: Linux, GitHub, Vercel, Bootstrap

Certifications & Achievements

- **Cisco** - Certified in Network Addressing and Basic Troubleshooting

- **HackerRank** -
  - Certified in Python (Basic), SQL (Basic),Problem Solving (Basic)
  - Earned a 5-star rating for skills and consistency

- **CodeChef** - Solved 200+ coding problems, demonstrating strong problem-solving and programming skills

- **Hackathon Achievement** - Secured a prominent position at the National-Level Hackathon conducted by VRSEC, Vijayawada (2023).

- **E-Abhyas Recognit** - Achieved Third Place in E-Abhyas from Guntur District, Tenali

- **Leadership** - Served as NSS Organizer for the IT Department, SRKREC (2023–2024), leading multiple departmental and social events