Mohammad Arshad Ali Shaik

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Education

Vignan's Foundation for Science, Technology and Research (Deemed to be University)   **2021 – 2025**
Bachelor of Technology - Computer Science Engineering   *CGPA - 7.88*

Sri Chaitanya Jr. college   **2019 – 2021**
Class XI, XII - MPC, A.P Board   *939/1000*

Projects

Face Recognition Voting System Using the LBPH Algorithm | *Python, PHP, HTML, Javascript*   **July 2024**

- Developed a secure and automated voting system that leverages facial recognition to verify voter identities and prevent fraudulent activities. Designed the front-end using **HTML, CSS**, and **JavaScript,** while implementing the back-end using PHP for database operations with **MySQL**. Integrated **OpenCV for face detection** and applied the **LBPH (Local Binary Pattern Histogram)** algorithm to match stored facial data accurately before allowing users to cast their votes. The system enhances voting transparency and eliminates manual identity verification.

- Provides enhanced security by implementing and deploying a state-of-the-art face recognition system to effectively combat and prevent in-stances of fraudulent voting, ensuring the integrity of electoral processes. It can reduce fraudulent voting incidents by 85%.

Precision Agriculture – A Hybrid Ensemble Model for Dynamic Crop Recommendations | *Python*
Random Forest, Linear Regression, Flask application, HTML, CSS   **May 2025**

- Built a **Flask-based** crop recommendation system using a **hybrid model (Linear Regression + Random Forest)**, achieving 99.3% accuracy on soil and climate data

- Demonstrated a Flask-powered web interface that processes NPK, pH, temperature, and rainfall data to generate real-time crop suggestions.

Technical Skills

- **Programming Languages:** Python, C, Java.

- **Web Technologies:** HTML, CSS, JavaScript.

- **Databases:** MySQL.

- **FrameWorks:** ReactJS, Flask.

- **Version Control & CI/CD:** Git, GitHub.

- **Operating System:** Linux.

- **Core CS Subjects:** OOPs, Data Structures Algorithms (DSA), Software Development Life Cycle (SDLC), Operating Systems (OS), Computer Networks (CN).

- **Development Tools:** VS Code, Jupyter Notebook.

Certifications

- NPTEL certified in Internet of Things, Principles of Management, E-Business,Leadership and Team Effectiveness

- PET(Preliminary English Test) Certificate conducted by Cambridge university with Grade B

- Business English Certificate (BEC) conducted by Cambridge university with Score 157

- HackerRank certified in Problem Solving, Python and java

Accomplishments

- Paper titled "Precision Agriculture: A Hybrid Ensemble Model for Dynamic Crop Recommendations Using Soil NPK and Climate Data" accepted for presentation at the 16th International Conference on Computing, Com-munication and Networking Technologies (ICCCNT 2025).

- Practised and ran executable programmes up to 20,000 lines in diverse problems in various programming platform like Code chef, HackerEarth,HackerRank in c and Python languages.

- 2* coder in codechef

- Participated in GeekForGeekd Hack-A-Thnon.

Portfolio

- **https://new-i2vk5ly6q-shiak-mohammad-arshad-alis-projects.vercel.app/**