AFRA JABEEN

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SUMMARY

Passionate and detail-oriented in B.E Computer Science (AI & ML) with a strong foundation in machine learning, data structures, and software development. Proficient in Python,C,SQL and deep learning frameworks such as TensorFlow. Demonstrated problem-solving skills through projects

Education

ATME College of Engineering, Mysore 2022-2026
BE in Computer Science (AI & ML):CGPA: 8.1

ST Joseph pu college for girls, Sathgalli Mysore 2022
PUC(PCMB):69%

Andalus english school, Mysore 2020
SSLC; CGPA: 69%

Projects

Binary Regression on 3D Objects Using Machine Learning

- Applied machine learning techniques to predict binary outcomes from 3D object data (e.g., shape classification or object pass/fail).
- Used Python, Scikit-learn, and 3D processing tools to extract geometric features.
- Trained regression models and evaluated results using R^2 score and Mean Squared Error (MSE).

Lungs disease classification using deep learning

Tools & technologies: Python, TensorFlow, CNN, Keras, Open CV, X-ray Dataset.

- Developed a deep learning model using Convolutional Neural Networks (CNN) to classify chest X-ray images into categories such as Pneumonia, Tuberculosis, and COVID-19.
- Developed system that achieved 96% accuracy .

A Smart System for Crop Growth Recommendation

Tools & technologies: Python,Pandas, Html ,Java script,Css,Chart.js .

- Developed a Flask-based web application integrating a trained ML pipeline to predict irrigation needs with probability scores.
- Implemented RESTful APIs (/predict, /health) for real-time crop monitoring and decision support.
- Designed a scalable system to support any crop input, ensuring flexibility for diverse agricultural use cases.
- Enhanced sustainable agriculture practices by optimizing water usage through data-driven predictions.

Skills Summary

- **Programming Languages:** Python, C, Java basics.
- **Web Technologies & Databases:** HTML, CSS, MySQL,DSA.
- **Machine Learning & AI:** TensorFlow, scikit-learn.
- **Data Handling & Visualization:** Pandas, NumPy, Tableau, Power BI, Excel.
- **Tools & Platforms**: Jupyter Notebook, Google Colab, Visual Studio Code, Git.
- **Soft Skills**: Communication, Teamwork, Problem Solving.

Certifications

- FORGE:
  - TATA GenAI Powered Data Analytics Job Simulation July 2025
  - Deloitte Data Analytics Job Simulation July 2025
  - AWS Solutions Architecture Job Simulation

- IBM SkillsBuild
  - Getting Started with Artificial Intelligence July 2025

INTERNSHIP

EDUNET FOUNDATION UNDER SKILLS4FUTURE PROGRAM | ARTIFICIAL INTELLIGENCE AND DATA ANALYTICS FOCUSED ON GREEN SKILLS| 4-WEEK VIRTUAL INTERNSHIP (Aug-Sep2025)

A Smart System for Crop Growth Recommendation :
Technologies: Python, Flask, Scikit-learn, Pandas, Pickle, RESTful API .
• Developed a Flask-based web application integrating a trained ML pipeline to predict irrigation needs with probability scores.
• Implemented RESTful APIs (predict, health) for real-time crop monitoring and decision support.
• Designed a scalable system to support any crop input, ensuring flexibility for diverse agricultural use cases.
• Enhanced sustainable agriculture practices by optimizing water usage through data-driven predictions.

Extra-Curricular Activities

- SKULERR Tech Expedition – Attended a one-day workshop on AI, Power BI, and AR/VR, conducted by experts from GlobalLogic and TechShiksha | ATMECE (Jul 2024).
- National Level Hackathon (Techavishkar 2.O), 15-16 May 2025.
- IVIS TRAINING : IVIS1,IVIS2,JUN 2024 - MARCH 2025.
- LINUX FUNDAMENTALS : MASTER THE LINUX BASIC - 5 DAY BOOTCAMP |DEVTOWN (AUG –SEP 2025) GOOGLE DEVELOPER, MICROSOFT, DEVTOWN.

HOBBIES

- Travelling & Exploring new culture
- Shopping
- Learning new things