Full Stack Developer and AIML Enthusiast

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Career Statement: I am a highly motivated Web and Machine Learning Developer with a strong foundation in AI-driven applications, full-stack development, and payment systems. Seeking an opportunity to contribute my technical expertise and problem-solving skills in a dynamic and innovative environment.

Educational Qualifications:

- Currently completed Third Year of B.tech CSE-AIML from Bharati Vidyapeeth Kharghar with 8.9 CGPA.
- 12 CBSE with 60% from Arunodaya Public School, Thane.

Project:

1. Brain Tumor Detection

Tech Stack: Python, Scikit Learn, Deep Learning, Transfer Learning, Ensemble Learning

Description:

Developed a robust multi-model classification pipeline to detect brain tumors (Glioma, Meningioma, Pituitary, No Tumor) from MRI scans using transfer learning and ensemble modeling.

- Utilized **InceptionV3**, **Xception**, and **VGG16** with fine-tuning for feature extraction.
- Applied **early feature fusion** by concatenating deep features from all models.
- Achieved **97%+ test accuracy**, with high precision and recall across all tumor classes.
- Implemented preprocessing, augmentation, and cross-validation to improve generalization.

2. Farmer's Marketplace with AI Crop Recommendation System

Tech Stack: React, Django, Python, Pandas

Description:

Developed a full-stack web platform to support farmers in selling their crops and receiving AI-based suggestions on what to grow next. The AI model suggests optimal crops based on real-time weather data and soil conditions.

- Integrated APIs to fetch local weather data and used sample soil datasets for intelligent recommendations.
- Designed user dashboards for inventory listing and order management.
- Helped improve agricultural decision-making by combining data analytics with a user-friendly interface.

3. Dental Management System (With HOD, for Local Institution)

Tech Stack: MERN Stack (MongoDB, Express, React, Node.js)

Description:

Built a secure dental record and appointment system for a nearby dental clinic in collaboration with the Head of Department. The system helps staff manage patients and doctors efficiently.

- Features include patient registration, history tracking, and doctor assignment.
- Enabled doctors to access historical medical records and prescribe treatments accordingly.
- Ensured secure login and access control using JWT-based authentication.

4. Diamond Price Prediction Model

Tech Stack: Python, Pandas, Scikit-learn, Matplotlib

Description:

Created a regression-based machine learning model that predicts the price of diamonds based on their physical characteristics like carat, cut, colour, clarity, depth, and dimensions.

- Handled data cleaning, outlier detection using manual thresholding, and normalization to prepare data for modelling.
- Trained multiple models and selected the best-performing one using cross-validation techniques.
- Achieved high prediction accuracy and visualized the results for better interpretability.

Technical Skills:

- Languages: C, Java, Python, JavaScript
- Web Development: HTML, CSS, React.js, Axios, Django,
- Data Science & ML: NumPy, Pandas, Matplotlib, Scikit-learn, Tensorflow, Keras
- Databases: MongoDB, PostgreSQL, MySQL
- Tools and Deployment : Git, GitHub, VS Code, Jupyter Notebook, Vercel, Netlify

Certificates :

I have earned certifications in Machine Learning, Deep Learning, and Web Development. You can find them here: link.