Dipali Gangarde

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EXPERIENCE

1. ML Intern | UST Global August 2024-Nov 2024

- Developed a **sentiment analysis** model for analyzing the user sentiment towards 8 energy types (Renewable and non-renewable).
- Implemented and compared **BERT** and **Distil-BERT** for English comments, achieving 84% accuracy.
- Expanded to 36,802 comments in English, Hindi, and Marathi from social platforms and applied **mBERT** for **multilingual** sentiment analysis, reaching **95%** accuracy.

EDUCATION

Vishwakarma Institute of Information Technology Pune, MH, India
Bachelor of Technology (Computer Science and Engineering – Artificial Intelligence) 2022-Present, CGPA-

Nutan Junior College Ahmednagar, MH, India
HSC (PCMB) 2021-2022, Percentage-89%

PROJECTS

1. **Human Pose Estimation using Machine Learning:**
   - Developed and classified five yoga poses: DownDog, Tree, Plank, Warrior2, and Goddess, ensuring high-quality input for model training and evaluation.
   - Implemented and compared two deep learning models, YOLOv8 and MoveNet, for accurate pose estimation.
2. **Departmental Event Management Website for CSE-AI Department:**
   - Designed an event website where student can register for technical, non-technical events organized by CSE(AI) department.
   - For admin panel, teachers or core committee can perform **CRUD (Create, Read, Update, Delete)** tasks on each event.
3. **Video Segmentation and Retrieval based on Image-Driven Person Recognition for Surveillance**
   - Implemented an AI-driven video surveillance system using YOLOv10 and OpenCV to detect and extract video clips of a target individual.
   - Engineered a video analytics system which cut down manual review time by 30% and allowed security personnel to focus on high-priority incidents.
4. **Student Classroom Attention Detection using AI and Electronic Sensors: (Eduplus Campus)**
   - Developed an advanced AI-driven classroom attention detection system utilizing image processing techniques and EEG signals.
   - Project led to increased student engagement metrics by 40%, enhancing overall learning effectiveness.
   - Streamlined the teacher's workflow by automating attention span monitoring for students, saving an average of 10 hours weekly and allowing more time to focus on individualized instruction and student engagement strategies.

SKILLS

1. Java | Python | Git | MongoDB | MySQL
2. HTML | CSS | JavaScript | React JS | NodeJS | Express.js | Flask
3. Artificial Intelligence | Neural Networks | Deep Learning | Natural Language Processing
4. Data Structures and Algorithms | Object Oriented Programming
5. Operating System | Databases
6. Interpersonal Communication | Problem Solving | Leadership

VOLUNTEER

Documentation Team Member | CEC VIIT (Competitive Examination Cell, VIIT) Sept 2023-Sept 2024
Design Team Member | CEC VIIT (Competitive Examination Cell, VIIT) Sept 2023-Sept 2024

CERTIFICATIONS AND ACHIEVEMENTS

- Presented a **Research Paper at ASCIS** conference (Springer, Scopus-indexed).
- Granted a **Copyright from Government of India** on project entitled "Departmental Event Management Website for CSE-AI Department".
- Udemy certified for **The Complete 2024 Web Development Bootcamp**, **Machine Learning A-Z: AI, Python.**
- CDAC certified for **Basic Certification Course in Artificial Intelligence certification from CDAC**
- NPTEL (IIT Madras) certified for **Python for Data Science**.