PRADYUMNA WAGHOLIKAR

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Education

PUNE INSTITUTE OF COMPUTER TECHNOLOGY(PICT) ,Pune, India **(Current) 2022 - 2026**
Undergraduate(B.E) | Latest SGPA 4th sem: 9.73

JSPMs Prodigy Public School,Wagholi,Pune, India **2020 - 2022**
CBSE (Class XII), Percentage:91%

The Lexicon International School,Wagholi,Pune, India **2006 - 2020**
CBSE (Class X), Percentage:96%

Technical Skills

Programming Languages: C++, Python, JavaScript, SQL (Postgres & MySql)
Web Development: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, React.js, Next.js, PostgreSQL, MySQL, Tailwind CSS, Git, Github, PrismaORM
Data Science and Machine Learning: Pandas, NumPy, Matplotlib, Scikit learn
Deep Learning- TensorFlow

Projects

Pose Estimation For Bicep Curl Analysis https://github.com/pradyumna9195/Pose-Estimation-For-Bicep-Curl-Analysis
MediaPipe Pose, Python, OpenCV, Machine Learning, Numpy, Matplotlib

- **Overview**: Developed an AI fitness trainer system using MediaPipe Pose to track and analyze bicep curl movements, providing real-time feedback on joint angles and form accuracy.
- Implemented real-time elbow joint angle tracking to ensure proper form.
- Developed an elbow stability detection system using x, y, z coordinates for accurate feedback on form correction.
- Designed feedback mechanisms with stage-based counting (up/down) for tracking repetitions and ensuring consistency in exercise execution.
- Benchmarked performance and accuracy against existing solutions, showing increased accessibility and simplicity.
- **Outcome**: Improved user form consistency with real-time feedback and increased exercise precision, ensuring safe and effective workouts without specialized equipment.

MediLink- "Connecting Rural patients to Doctors" (Group Project) --Next.js, Tailwind CSS, Node.js with Express.js, PostgreSQL

- The Healthcare Accessibility project is designed to address the significant challenges faced by rural and remote communities in accessing essential healthcare services.
- By developing a user-friendly telehealth application with multi-language support, this solution aims to bridge the gap between healthcare providers and patients who are geographically isolated or face language barriers.
- This solution empowers rural populations to connect with doctors for remote consultations, access reliable medical information, and receive personalised care, all through an intuitive interface that caters to non-tech-savvy users.

KhetiSathi - AI-Driven Crop Disease Prediction and Management System (Group Project) --Next.js, Express.js, Gemini API, Tensorflow, Numpy, Pandas, Scikit learn, Tailwind CSS, MongoDB

- This project is a part of Smart India Hackathon '24, Problem statement ID 1638
- KhetiSathi is an all-in-one agriculture software that provides daily farming suggestions, yield predictions, disease detection, and information on government schemes platform.
- AI-driven solutions analyze crop images to predict diseases, recommend treatments, and connect farmers with government programs.
- Community section offers articles, advice, and news to prevent crop losses and foster collective learning.

Achievements

- **Finalist in Medecro.ai Hackathon**
  Gained hands-on experience in project-based learning and teamwork while developing a real-world solution addressing healthcare accessibility challenges under tight deadlines.
- Topped My School in Class 10th Board Examination

Certifications

C++ Programming Language -PICT, Pune

Machine Learning Specialization -Stanford University, Andrew Ng