Anurag Karpe

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EDUCATION

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING PUNE — Pune, MH
Bachelor of Technology — DEC 2021-MAY 2025
in Computer Science and Engineering (Artificial Intelligence and Machine Learning); GPA: 7.67/10

EXPERIENCE

AI Intern — AUG 2024-NOV 2024
AI Unika. — Pune
- 8000+ photos from a 360^0 camera were used to create a custom dataset for pothole detection.
- Trained an instance segmentation model to segment out potholes using YOLOv8.

AI and Data Intern — JUN 2024-AUG 2024
Quaza AI. — Remote
- Generated video datasets for evaluation model
- Worked on a Pose-estimation model using Mediapipe and YOLOv8.

UNIVERSITY PROJECTS

STRESS DETECTION USING MACHINE LEARNING — MAR 2024
- Several machine learning techniques were created and put into use to identify stress using the WESAD dataset.
- Our models gave accuracies of up to 99.98% and performed exceptionally well.

TEXT SUMMARIZER AND PARAPHRASER USING TRANSFORMERS — FEB 2024
- Developed and rolled out a web application to summarize and paraphrase the text.
- BART from Facebook and T-5 from Google were the models used.

TECHNICAL SKILLS

Languages: Python, C++.
Libraries: Pandas, Numpy, Seaborn, Keras, Tensorflow, Spacy, Pytorch.
Developer Tools: Git, Github, Jupyter notebook, VS Code, Anaconda, AWS.
Certifications & Training: DevOps DataOps MLOpsDeep-Duke University, Learning with PyTorch: Image Segmentation - Coursera, AWS AI-ML course.

RESEARCH WORK

STRESS DETECTION USING MACHINE LEARNING. — MAR 2024
- The Research paper published in Springer Link Journal Power Engineering and Intelligent System
- The paper was approved and presented at NIT Uttarakhand's International Springer Scopus conference.
- Comparative research on various machine learning methods for stress detection with accuracy ranging from 99.98% to 80% was covered in the publication.

ACTIVITIES

KONICHIWA PUNE 2023 — Pune, MH
Volunteer — Nov 2024
- Effectively organized and managed all backstage operations, ensuring smooth coordination, timely execution, and seamless support for on-stage activities, while ensuring excellent hospitality for guests.
- Provided comprehensive assistance to attendees from the help desk, addressing their inquiries, resolving issues, and ensuring a positive and seamless event experience.

ARTIMAS 2024 — Pune, MH
Managing and Design-Social media Head — Feb 2024
- Oversaw and coordinated the entire intercollegiate competition, which had over 1500 registrants and over 25 winners.
- Gathered more than 50,000 account engagements by creating a variety of content for event marketing.