TUSHAR JAGATAP

Raver, Maharashtra

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Education

VIT Bhopal University	**2022 – 2027 (Expected)**
Integrated M.Tech in Artificial Intelligence	*CGPA: 8.41*
SVKM M.J. College, Jalgaon	**Mar 2022**
Higher Secondary Certificate (12th), Maharashtra State Board	*Percentage: 77.17%*
SVVM, Raver	**Mar 2020**
Secondary School Certificate (10th), Maharashtra State Board	*Percentage: 93.80%*

Skills

Programming Languages: Python, Java
Machine Learning & Deep Learning: TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, Fuzzy Logic
Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn
Soft Skills: Problem Solving, Communication, Teamwork, Time Management, Adaptability

Projects

Tool for PTSD Detection using Micro-expression Recognition Model   May 2024
Python, Machine Learning, Computer Vision, VGG19

- Developed a machine learning model to detect PTSD by analyzing micro-expressions using datasets like CASME2, CASME3, and SAMM.
- Applied VGG19 architecture for feature extraction and classification of micro-expressions.
- Enhanced early PTSD detection through model training, evaluation, and optimization for high accuracy.

Stress Monitoring System using Physiological Signals   Apr 2025
Python, TensorFlow, KNN, SVM, Decision Trees, Fuzzy Logic

- Designed a stress monitoring system analyzing physiological data like heart rate and skin temperature.
- Implemented machine learning algorithms (KNN, SVM, Decision Trees) and fuzzy logic for stress level classification.
- Achieved accurate stress prediction through data preprocessing, training, and model optimization.

Bidirectional Sign Language Translator   May 2025
Python, Deep Learning, Computer Vision, OpenCV

- Developed a system to translate sign language gestures to text and speech, and vice versa using deep learning.
- Implemented CNN-based hand gesture recognition for real-time sign-to-text translation.
- Enhanced accessibility for hearing-impaired users with an intuitive interface and accurate recognition.

Extracurricular

Media Team Lead   **March 2024 – Present**
Marathi Club   *VIT Bhopal Universiy*

- Lead media content creation and promoted club activities to increase engagement and visibility.

Resource Department Lead   **September 2024 – Present**
Insight Club   *VIT Bhopal University*

- Lead the Resource Department, coordinating with members for collecting news reports and photos for the newsletter.
- From September 2023 to September 2024, worked as a member and photographer of the Resource Department, capturing photographs and writing reports for the newsletter to document club events and activities

Design Team Coordinator   **July 2023 – February 2024**
E-Cell Club   *VIT Bhopal University*

- Coordinated design efforts to create promotional materials for club events and activities.

Additional Information

Languages: English, Hindi, Marathi
Hobbies: Photography, Reading, Exploring New Places, Music