

TUSHAR AHIRE

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EDUCATION

SVKM's Narsee Monjee institute of management and studies, Shirpur
B.Tech, Artificial Intelligence and Machine Learning - CGPA - 2.8/4

sept 2022 - May 2026

Shirpur, Maharashtra

Sheth V.K.Shah Vidya mandir,shahada

Senior Secondary Examination - Percentage - 81.2%

Mar 2020 - Apr 2022

Shahada, maharashtra

PROJECTS

Image Colourization Using conditional GAN 🔗 |

March 2025 - April 2025

- Developed an AI model for historical image colorization using a U-net-Based generator and CNN discriminator, achieving 88 percent SSIM and 30db PSNR.
- Enhanced training with data augmentation and combined adversarial + pixel-wise loss for improved realism and detail preservation.
- Technologies used:** Python, TensorFlow, OpenCV

Smart Agricultural and Environmental Trends 🔗 |

april 2025 - May 2025

- Built an interactive dashboard to analyze smart agricultural trends, focusing on crop yield, climate impact, and technology adoption across regions.
- Integrated multiple datasets to uncover insights on seasonal patterns, water usage, and fertilizer effectiveness, enhancing decision-making for stakeholders.
- Implemented drill-downs, slicers, and dynamic visuals to improve user interaction and data exploration capabilities.
- Technologies used:** Power BI, DAX, Power Query, Excel.

AI-Powered Sign Language Converter 🔗 |

Oct 2024 - Nov 2025

- Developed a real-time American Sign Language recognition system using YOLOv5 for hand detection and a CNN for gesture classification.
- Achieved 92 percent accuracy on a custom dataset with seamless camera integration and real-time prediction using OpenCV.
- Technologies used:** PyTorch, YOLOv5, OpenCV, Python, Deep Learning.

Certification

Salesforce AI Associate Certification 🔗

9 Nov 2024

Credential ID :

5320836

- Demonstrated foundational knowledge of AI concepts, ethical AI, and CRM-based AI solutions using Salesforce Einstein.
- Gained practical skills in applying AI to enhance customer engagement, data analysis, and decision-making processes.
- Credential: TensorFlow Developer Certificate — Platform: Udemy.

AWS Azure Cloud computing 🔗

9 Nov 2024

- Completed nine foundational and intermediate-level certifications across AWS and Microsoft Azure platforms, demonstrating proficiency in cloud architecture, services, and security best practices.
- Gained practical experience with core services such as Azure Virtual Machines, and Azure Active Directory, enhancing skills in deploying and managing scalable cloud solutions.

TECHNICAL SKILLS

Programming Languages: C++, Python,

Data Manipulation and Analysis: SQL, PowerBI, DW

Developer Tools: VS Code, GitHub, Autocad, Cloudera, Google Colab, Jupyter Notebook

Frameworks: Hugging Face Transformers, Streamlit, pytorch, Git

Libraries: TensorFlow, Keras, Matplotlib, Pandas, NumPy, Scikit-learn, NLTK

Object-Oriented Programming (OOP)

Database Management Systems (DBMS)