Manvedra Singh

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B.Tech
Mechanical Engineering
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology Indore	8.09	2023-Present
Senior Secondary	CBSE Board	95.8%	2022
Secondary	CBSE Board	94.6%	2020

PROJECTS

- **Cat-Dog-Person Classifier** *May 2025 - June 2025*
  Personal Project Github
  – Developed a custom **CNN** in PyTorch to classify images as dog, cat, or person
  – Deployed the model with a clean **Gradio interface** for real-time predictions

- **GenAI Video Editor** *Jul. 2025*
  PyTorch, Deep Learning Github
  – Integrated **AnimeGAN** and **ReCoNet** for real-time video style transfer
  – Implemented **RIFE interpolation** to generate smooth slow-motion sequences
  – Customized PyTorch pipelines and modified core scripts for multi-model video editing

- **Calorie Predictor – Kaggle Competition** *May 2025*
  Kaggle Competition Compitition Link
  – Ranked 974 out of 4316 (Top 22%) in a calorie estimation challenge
  – Built and trained a deep neural network using TensorFlow/Keras

- **MNIST Digit Classifier – TensorFlow** *Apr. 2025*
  Personal Project Github
  – Achieved 98.52% accuracy on the test dataset
  – Built and trained a deep neural network using TensorFlow/Keras
  – Visualized model performance using a confusion matrix heatmap for better interpretability

TECHNICAL SKILLS

- **Programming**: Python, C/C++
- **Machine Learning***: Scikit-learn, TensorFlow (basics), NumPy, Matplotlib ** Elementary proficiency*
- **Computer Vision**: Image Classification, Object Detection, Image Segmentation, Style Transfer, OpenCV, TensorFlow/Keras
- **Other Skills**: Data Structures and Algorithms (C++), Basic Control Systems, Proposal Writing

KEY COURSES TAKEN

- **Maths & ML Foundations**: Linear Algebra, Differential Equations I & II, Numerical Methods
- **Programming & Data**: Computer Programming (C++), Industrial Data Analytics, Computer-Aided Machine Drawing

ACHIEVEMENTS

- **Solved 300+ DSA & Competitive Programming Problems**, Check out my coding journey on **LeetCode**, **Codeforces**, and **GFG**—covered arrays, trees, dynamic programming, and graphs *2024–25*
- **JEE Advanced 2023**, Secured All India Rank 7298 in JEE Advanced 2023 (General Category) *2023*
- **Line Follower Robot (Team Project)**, Led mechanical design; built obstacle-lifting mechanism and achieved high-speed navigation *2024*