SEJAL DUBEY

B.Tech (Artificial Intelligence and Machine Learning)
Symbiosis Institute of Technology, Pune

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EDUCATION

- **B.Tech (Artificial Intelligence and Machine Learning)** *2022–2026*
  Symbiosis Institute of Technology, Pune — CGPA: 7.99 (Till 6th Sem)

- **12th (GSEB)** *2022*
  T & T.V. Sarvajanik High School, Surat — 76.00%

- **10th (GSEB)** *2020*
  Mary Matha Public School, Surat — 87.16%

PROJECTS

- **Enhancing depth estimation using Pix2Pix GANs** *2025*
  Developed a GAN-based pipeline to synthesize right-view images from monocular inputs and estimate depth via stereo matching algorithms. Evaluated performance using KITTI dataset and metrics like SSIM, RMSE, and FID.
  Tech Stack: PyTorch, OpenCV, Pix2Pix GAN
  Key Outcomes: Demonstrated GAN-based synthetic stereo pair generation from monocular image as a viable alternative to expensive stereo LiDAR systems.

- **Voice2Gesture** *2024*
  Developed a web application converting spoken language in videos to sign language representations.
  Tech Stack: TensorFlow, Keras, Django, pydub, NLTK, CNNs, Custom Transformer model
  Key Outcomes: Enhanced inclusivity through language translation and visual representation.

- **NLP based Web Crawler Summarization** *2024*
  Built a summarization system using web crawlers and BART for deep learning-based text summarization.
  Tech Stack: Selenium, BeautifulSoup, Scrapy, NLTK, BART, Transformer, Python
  Key Outcomes: Enabled efficient extraction and summarization of online content.

- **Firearm Detection** *2023*
  Designed ML/DL models to enhance public safety through firearm classification.
  Tech Stack: OpenCV, ResNet50, Haar Cascade classifier , Random Forest
  Key Outcomes: Improved public safety through accurate classification of firearms.

SKILLS

Programming: Python, Java, C, DSA, React.js
Libraries/Tools: PyTorch, OpenCV, NumPy, Pandas, Matplotlib, Seaborn, scikit-learn
Machine and Deep Learning: CNN, RNN, KNN, Random Forest, SVM
Soft Skills: Communication, Teamwork, Problem-Solving, Adaptability, Critical Thinking

EXPERIENCE and ACHIEVEMENTS

- **Hackathons and Competitions:**

  · Selected for **Smart India Hackathon 2024** (Top 120 nationally), demonstrating problem-solving and teamwork.

  · Participated in **PICTE** project exhibition competetion, **FOSS Hackathon** (built Voice2Gesture project).

- **Leadership Roles:**

  · **Documentation Head (2025)** – **AI Club** (managing documentation team, publishing articles on LinkedIn and GitHub).

  · **Volunteer** – **SymbiTech AI Events** (2023, 2024) (assisted in event organization and participant engagement).