

KRISH SHAH

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Education

Veermata Jijabai Technological Institute, Mumbai

2023 – Present

Bachelor of Technology in Computer Science | CPI: 8.14

Indian Institute of Technology Madras (Online)

2022 – Present

Bachelor of Science (BS) in Data Science and Applications | CPI: 7.92

Rao Junior College of Science, Mumbai

2021 – 2022

HSC: 84.83% | JEE Mains: 99.25%ile | MHT-CET: 99.90%ile

Relevant Coursework

- Data Structures & Algorithms
- Linear Algebra
- Database Management System

- Machine Learning Techniques
- Operating Systems
- Business Data Management

- Business Analytics
- Design Analytics & Algorithms
- Deep Learning

Projects

Chroma Sight | Pytorch, Tensorflow, Transformers, CNNs

Aug 2024 - Oct 2024

- Engineered solutions to assist visually impaired individuals.
- Constructed an **Image Captioning** Model utilizing **Vision Transformer** architecture to generate descriptive explanations of images.
- Designed **Depth Perception** models employing **Vision Transformer** and **Stereo Vision** to provide users with a sense of object depth.
- Implemented a **Traffic Light Detection** model using **YOLO** Object Detection Algorithm with 92.27% accuracy to aid users while driving.
- Integrated Image Captioning, Depth Perception, and Traffic Light Detection models for a seamless user experience.

Doodle Transformation | Stable Diffusion, ControlNet, PyTorch, CNNs

May 2025 – Present

- Engineered an **Image-to-Image Transformation** pipeline that generates high-fidelity images from user-provided scribbles.
- Built the complete **Stable Diffusion** architecture from scratch and trained it to generate high-quality conditioned image outputs.
- Implemented the **ControlNet (Scribble Condition)** architecture from scratch and integrated it with the diffusion backbone for guided generation.
- Integrated a previously developed **Image Captioning Model** to provide descriptive textual explanations of generated images.

Technical Skills

Languages: Python, SQL, C++

Developer Tools: VS Code, PyCharm, Google Colab, Git, GitHub

Technologies/Frameworks: TensorFlow, PyTorch, OpenCV

Certifications

Neural Networks and Deep Learning - Coursera

October 2024

Improving Deep Neural Networks - Coursera

October 2024

Leadership

Marketing Executive at Pratibimb, VJTI

Aug 2024 – Present

- Contributed to content creation and event promotion.

Achievements

- Secured **5th** place in CodeHunt organized by COC VJTI.
- **Best FY team** in Capture The Flag event organized by Digital VJTI.
- **Winner, SuperNova** – The Startup Simulator at Startup NetCon 2024, organized by E-Cell VJTI, Mumbai