

KRISH SHAH

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Education

Veermata Jijabai Technological Institute, Mumbai <i>Bachelor of Technology in Computer Science CPI: 8.14</i>	2023 – Present
Indian Institute of Technology Madras (Online) <i>Bachelor of Science (BS) in Data Science and Applications CPI: 7.92</i>	2022 – Present
Rao Junior College of Science, Mumbai <i>HSC: 84.83% JEE Mains: 99.25%ile MHT-CET: 99.90%ile</i>	2021 – 2022

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 <i>Pytorch, Tensorflow, Transformers, CNNs</i>	Aug 2024 - Oct 2024
<ul style="list-style-type: none">• 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 <i>Stable Diffusion, ControlNet, PyTorch, CNNs</i>	May 2025 – Present
<ul style="list-style-type: none">• 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 • Contributed to content creation and event promotion.	Aug 2024 – Present
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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