

AVANTI BHANDARKAR

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EDUCATION

- **Mukesh Patel School of Technology Management and Engineering** 2018 - Present
BTech in Electronics and Telecommunication Engineering , 2022 (Expected)
CGPA: 3.3/4 (8.25/10)

EXPERIENCE

- **L&T NxT** Mumbai/Remote
Machine Learning Intern May 2020 - Jun 2020
 - Developed a machine learning pipeline in Python to perform image segmentation and object detection on custom datasets
- **Solaron Homes Pvt Ltd** Mumbai
Summer Intern May 2019 - Jun 2019
 - Designed a small-scale 'blind' solar tracker prototype in AutoCAD, wrote Arduino code to calculate the sun's position based on GPS/user-input LatLong values and rotate the tracker accordingly

SELECTED PROJECTS

- **3D rice model development** Sep 2020 - Present
Research project under SAMEER, IIT Powai
- **Interpreting laparoscopy videos using Deep Learning** Nov 2020 - Present
Minor Project
- **Predicting the transition of Hawaiian coral reef regimes** Sep 2020 - Nov 2020
Course project for Statistical Methods and Analysis
 - Classified coral reefs into regimes on the basis of anthropogenic and biological driving factors
 - Worked on predicting shifts in flourishing regimes on the basis of past data

TECHNICAL SKILLS

	Familiar	Proficient
Languages:	Embedded C, HTML/CSS	Python, MATLAB
ML and Image Processing:	Pytorch, Scikit-image, Librosa	Keras, Tensorflow, OpenCV
Databases:	Oracle APEX - PL/SQL	
Other:	AutoCAD, Arduino IDE	

KEY COURSEWORK

- Machine Learning:** Probability and Stochastic Processes (A+), Statistical Analysis and Methods (grade pending), Introduction to AI/ML (A+), Machine Learning (grade pending), Deep Learning (ongoing)
- Signal Processing:** Discrete Time Signal Processing (ongoing), Image and Video Processing (ongoing)
- Communication Systems:** Analog and Digital Communication (grade pending)