

AMEGH BHAVSAR

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EDUCATION

Indian Institute of Technology Kharagpur <i>B.Tech + M.Tech in Biotechnology and Biochemical Engineering</i> CGPA: 7.41/10	July 2015 - Present Kharagpur, India
Vidyasar School <i>All India Senior School Certificate Examination</i> Percentage: 88.0%	Grad. May 2015 Indore, India

INTERNSHIPS AND PROJECTS

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| Pixean <i>Machine Learning Intern</i>
<i>OKSBIRD Online Services Private Limited</i> | May 2018 - June 2018
Navi Mumbai, India |
| <ul style="list-style-type: none">Designed recommendation engine for content projection and engagement based on user interest and activityDesigned image quality filters to skim out the irrelevant uploads and tested the algorithm on 600 imagesUsed Google Cloud Vision API to implement auto-tagging and genre suggestion for imagesDeveloped a tag-based search algorithm for images and blogs using Natural Language Toolkit and ElasticSearch | |
| Ideaforge Technologies <i>Computer Vision Intern</i> | March 2016 - Present |
| <ul style="list-style-type: none">Worked on Deep Convolutional Neural Networks based image and video super-resolution using TensorFlow | |
| Swarm Robotics IIT Kharagpur <i>Software Team Member</i>
<i>Guide: Prof. Somesh Kumar, Prof. Pallab Dasgupta</i> | March 2016 - Present
Kharagpur, India |
| <ul style="list-style-type: none">Tested and optimized the Artificial Potential Field algorithm for path planning of mobile robots on a simulatorAccomplished localization of mobile robots using AprilTags via image feed from an overhead camera in C++ | |
| Transcription Network Dynamics <i>B. Tech Project</i>
<i>Guide: Prof. Riddhiman Dhar</i> | July 2018 - Present
Kharagpur, India |
| <ul style="list-style-type: none">Working on hierarchical clustering of the gene expression data to understand dynamics of gene regulatory networks | |
| 3D Image Stitching <i>Image Processing Term Project</i>
<i>Guide: Prof. Partha Pratim Das</i> | October 2018
Kharagpur, India |
| <ul style="list-style-type: none">Implemented panoramic stitching of 72 images by calculating affine transform using FLANN based matcher | |

TECHNICAL SKILLS

- Languages** : **Proficient:** C, C++, Python | **Intermediate:** MATLAB, JavaScript
- Tools & Libraries** : OpenCV, TensorFlow, Git, ROS, Gazebo, ElasticSearch, MySQL
- Hardware** : Raspberry Pi, Arduino

RELEVANT COURSEWORK

- Undergraduate** : Partial Differential Equations, Probability and Statistics, Programming and Data Structures, Computational Neuroscience, Image Processing, Data Analytics*
 - MOOC** : Neural Networks and Deep Learning, Convolutional Neural Networks for Visual Recognition, Machine Learning, Introduction to Computer Vision, Computational Motion Planning, Introduction to Algorithms*
- * indicates ongoing courses

POSITIONS OF RESPONSIBILITY

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| Gopali Youth Welfare Society <i>Vice President</i>
(GYWS is a registered NGO run by students of IIT Kharagpur providing free of cost education to 220 underprivileged children) | April 2018 - Present |
| <ul style="list-style-type: none">Administered overall functioning of the organization as a part of its 13 member apex governing bodyHandled a budget of INR 34,00,000 to run Jagriti Vidya Mandir, a primary English-medium school run by GYWS | |