

# Dikshit Hegde

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Understanding *how human brain perceives three-dimensional space* is a challenging task. As a Research Fellow at Center of Excellence in Visual Intelligence under the guidance of Dr. Uma Mudenagudi and Ramesh Ashok Tabib, I have worked on Learning Representation of 2D/3D Data for better interpretation of Human like perception of 3D space.

## Research Interest

Unsupervised Learning | Geometric Learning | Learning Representation  
| Categorization | Incremental Learning

## Experience

CEVI   KLE Tech	Research Fellow
06/2021 – Present	Learning Representation of Data, Understanding the Geometry of 3D Data
SEED	Technical Consultant
10/2021 – 01/2023	Use of Annotated of Images and Support for building in-house tools
MulticoreWare	Software Engineer
09/2020 – 05/2021	Human Pose Estimation ( 2D and 3D Pose )
MulticoreWare	Project Intern
01/2020 – 08/2021	Human Activity Recognition, Ball Tracking
IIT Delhi	Research Intern
06/2019 – 07/2019	Categorization of Image through Clustering towards better 3D Reconstruction
IIT Delhi	Research Intern
06/2018 – 07/2018	Relocalization of a Query Image in 3D Generated Map

## Education

2020	Bachelor of Engineering, Electronics and Communication
2016	CGPA: 9.04/10   KLE Technological University, Hubballi, India
2016	Pre-Education University
2014	Physics: 94/100 Math: 96/100   Vidyaniketan PU Science College, Hubballi, India
2014	Secondary School Education
2011	Marks: 548/625   Dr. G.V.J.R.E.M.H. School, Hubballi, India

## Skills

Python | C | PyTorch | Technical Writing | Linux | Presentation Skills

## Publications

ICCVW (e-Heritage) 2023	DeFi: Detection and Filling of Holes in Point Clouds Towards Restoration of Digitized Cultural Heritage Models Ramesh Ashok Tabib, <b>Dikshit Hegde</b> , Tejas Anvekar, Uma Mudenagudi
CVPRW (StruCo3D) 2023	IPD-Net: SO(3) Invariant Primitive Decompositional Network for 3D Point Clouds Ramesh Ashok Tabib, Nitishkumar Upasi, Tejas Anvekar, <b>Dikshit Hegde</b> , Uma Mudenagudi
SIGGRAPH Asia 2022	Metric KNN is All You Need Tejas Anvekar, Ramesh Ashok Tabib, <b>Dikshit Hegde</b> , Uma Mudenagudi
CVPRW (IMW) 2022	DA-AE: Disparity-Alleviation Auto-Encoder Towards Categorization of Heritage Images for Aggrandized 3D Reconstruction <b>Dikshit Hegde</b> , Tejas Anvekar, Ramesh Ashok Tabib, Uma Mudenagudi
CVPRW (DLGC) 2022	VG-VAE: A Venatus Geometry Point-Cloud Variational Autoencoder Tejas Anvekar, Ramesh Ashok Tabib, <b>Dikshit Hegde</b> , Uma Mudenagudi
ICVGIP 2021	Modelling Nuisance Classifier Towards Class-Incremental Learning of Crowd-sourced Data Ramesh Ashok Tabib, T Santoshkumar, <b>Dikshit Hegde</b> , Adarsh Jamadandi, Uma Mudenagudi
CoCoNET (VisionNet) 2020	Deep Features for Categorization of Heritage Images Towards 3D Reconstruction Ramesh Ashok Tabib, <b>Dikshit Hegde</b> , T Santoshkumar, Srikar HI, Mutturaj Harage, Chaitra Desai, Ujwala Patil, Uma Mudenagudi
NCVPRIPG 2020	Relocalization of Camera in a 3D Map on Memory Restricted Devices Deepti Hegde, <b>Dikshit Hegde</b> , Ramesh Ashok Tabib, Uma Mudenagudi

## Co-curricular Activities

CEVI   KLE Tech 2022	Resource Person at Summer School in Visual Intelligence Introduction to Image Processing, Machine Learning, Deep Learning, and Computer vision
ATAL FDP 2023	Resource Person at ATAL Faculty Development Program Research Challenges and Application in Visual Intelligence (AICTE ATAL FDP) at KLE TU   CEVI
SEED 2022	Resource Person at KLETU - SAMSUNG SEED Lab Introduction to Python and its application in AI/ML for Interns at SEED Lab   CEVI
CEVI   KLE Tech 2021	Resource Person at CEVI Introduction to 2D/3D Human Pose Estimation and Application in Real-time.
SAMSUNG 2018-2019	Envoy for Industry Collaborative Project SAMSUNG SRIB – KLE Technological University (SoECE)

## Certifications

CVIT   IIIT H 2022	<b>3D Vision Summer School</b> Introduction to 3D data processing and its application.
IIT Madras 2018 (Online)	<b>Deep Learning</b> Introduction to Deep Learning
CEVI   KLE Tech 2017	<b>Summer School in Visual Intelligence</b> Introduction to Image Processing, Machine Learning, Computer Vision and its application.

## Projects

DST - IHDS 2018 - Present	<b>Pipeline for preserving the Heritage sites in digital format using crowdsourced images (Sponsored)</b> Acquiring and processing of Images towards generation and presentation of 3D models
AICTE - RPS 2018 - 2021	<b>Shape Representation</b> Inference of classification on encrypted data.
SAMSUNG SRIB 2018 - 2019	<b>Data Encryption</b> Inference of classification on encrypted data.
IIT D 2018	<b>Relocalization of an Agent in a known 3D SLAM Generated Map</b> Localizing image in a know 3D map using orb features and K-Means.
MulticoreWare 2020	<b>Human Activity Recognition</b> Industry Internship at <b>MulticoreWare</b>
MulticoreWare 2020-2021	<b>Human Pose Estimation</b> Industry Project at <b>MulticoreWare</b>
MulticoreWare 2020	<b>Ball Tracking in Sports</b> Industry Internship at <b>MulticoreWare</b>
SIH   HCL 2019	<b>Real-Time Multiple Person Recognition and Tracking for CCTV Cameras</b> HCL   Smart India Hackathon (Software Edition)
SEED 2022	<b>Annotation Check Tool</b> Collaborative with <b>Student Ecosystem for Engineered Data (SEED)</b>
SEED 2022	<b>Annotate Me Tool</b> Collaborative with <b>Student Ecosystem for Engineered Data (SEED)</b>

## Declaration

I declare the above data is appropriate according to my knowledge.

Dikshit Hegde