

Srinidhi Hegde

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Education

- **Indraprastha Institute of Information Technology Delhi** **2013 - Present**
B.Tech, Computer Science and Engineering *Overall GPA: 8.63/10*
- **Suraj Bhan D.A.V Public School, New Delhi** **2011 - 2013**
All India Senior School Certificate Examination (AISSCE) by CBSE for XIIth grade *Percentage: 94.2%*
- **Suraj Bhan D.A.V Public School, New Delhi** **2009 - 2011**
Central Board of Secondary Education (CBSE) for Xth grade *Overall GPA: 10/10*

Technical Skills

- **Expertise Area:** *Computer Vision, Virtual and Augmented Reality, Machine Learning, Computer Graphics and Android Development*
- **Programming Languages:** *C++, C, Java, Python, MATLAB, GLSL*
- **Tools and Technologies:** *OpenCV, Caffe, Theano, Hadoop, Spark, OpenGL, CUDA, Qt, .NET, CryEngine, Antlr, Ruby on Rails, AVR Programming*
- **Technical Electives:** *Machine Learning, Computer Vision, Convex Optimization, Probabilistic Graphical Models, GPU Computing, Computer Graphics, Artificial Intelligence, Big Data Analytics, Data Mining, Compilers, Mobile Computing, System and Network Administration*

Publications

- **S. Hegde, R. Perla, R. Hebbalaguppe, E. Hassan, "GestAR: Real Time Gesture Interaction for AR with Egocentric View".**
IEEE International Symposium on Mixed and Augmented Reality (ISMAR), 2016

Work Experiences

- **Teaching Assistant, GPU Computing** **January,2017 - Present**
Guide: Dr. Ojaswa Sharma
Designing course curriculum, CUDA assignments and projects for the course of GPU Computing at Graduate and Post Graduate level at IIIT-Delhi.
- **Software Development Intern, HEICO, India** **January,2017 - March, 2017**
Guide: Mr. Jattinder Singh
Fine-tuned control of Fatigue Testing Machine(FTM) used for evaluating material strength and fatigue visualization. Worked with .NET technology for developing data analysis tool for PID controller data of FTM.
- **Research Intern, TCS Innovation Labs, Gurgaon** **May,2016 - Aug,2016**
Guide: Ramya Hebbalaguppe, Dr. Ehtesham Hasan
Augmented Reality with Google Cardboard for Android Platform. Development of hand gesture interaction techniques for Google Cardboard for AR along with UI development and text rendering.

- **Teaching at AINA- An Initiative for National Advancement** **Jan,2015 - Dec,2015**
Guide: Mukund Agrawal
 Providing elementary education and personality development training for underprivileged children.
- **Summer Intern in Sensor Based Chessboard Project** **May,2014 - Jul,2014**
Guide: Dr. Somitra Kumar Sanadhya
 Designing analog circuits, handling AVR based programming (on microcontrollers).

Projects

- **Robust 3D Reconstruction of Indoor Scenes using Deep Learning** **August,2016 - Present**
Guide: Dr. Saket Anand and Dr. Ojaswa Sharma
 The projects involves localization and depth estimation for generating a 3D model of indoor scenes using CNNs. We developed an end-to-end pipeline for solving this problem. Tools & Technologies: Caffe, Theano, OpenCV, PCL
- **American Sign Language Recognition Using Heirarchical Rank Pooling** **Sep,2016 - Nov,2016**
Guide: Dr. Saket Anand and Dr. Anubha Gupta
 This was a course project for Machine Learning coursework. The problem we aimed to solve involves automatically recognizing sign language videos as glosses using heirarchical rank pooling features in a modified CaffeNet architecture. Tools & Technologies: Caffe, OpenCV
- **Fault Tolerant Area Coverage in Multi-Agent Systems** **Jan,2016 - May,2016**
Guide: Dr. P.B Sujit
 Solving the patrolling problem of Multi-Agent Systems under the constraint of area coverage with fault tolerance. Tools & Technologies: MATLAB
- **Vision Based Outdoor Localization of IIIT-Delhi Campus** **Feb,2016 - Apr,2016**
Guide: Dr. Saket Anand
 Estimating GPS location of user from a single image involving *location recognition, camera motion estimation and position triangulation*. This application was interfaced by an Android mobile application. Tools & Technologies: OpenCV, Android, Flask
- **Modelling Vegetations with L-systems using an Image** **Aug,2015 - Dec,2015**
Guide: Dr. Ojaswa Sharma
 Developing a novel technique to convert a single captured image of tree to a 3D model using user-guided brush strokes. The intricate tree details are handled by employing L-Systems. Tools & Technologies: Qt/C++, OpenGL, GLSL

Awards and Achievements

- Selected for fully-funded scholarship for attending CVS Vista Summer School 2017 conducted at York University, Canada.
- Most read research publication @TCS Research with 300+ reads globally.
- First Runner-up in semi-finals of Annual Science Quiz 2009, held at National Science Center, Delhi.
- Junior Science Talent Search Examination (JSTSE) by Directorate of Education, Delhi State Govt. Obtained 33rd rank in Delhi State.

Positions of Responsibility

- Publicity & Jury Team - Research Showcase'17, IIITD - February, 2017 - April, 2017
- Event Head - BrainFuzz at Esya'16, IIITD - May,2016 - August,2016
- Core Team and Rendering Team, Virtual Campus Project at IIITD - May,2015 - Dec,2015
- Teaching Assistant at IIITD for Refresher Module of Data Structures and Algorithms for incoming M.Tech batch - Jun,2015 - Aug,2015
- Moderator for Rebuttal - Online Debate Event at Esya - IIITD's Tech Fest - Aug,2014

Interests and Hobbies

- Tabla and Indian Classical Music
- Competitive Programming
- Football

References

Available on request.