

Academic Qualification

Degree & Year	Field	Univ/College	CPI
M. Tech (2013)	Computer Science	IIT Bombay	9.42/10
BE (2007)	Electronics & Telecomm'	Pune University	61.7% (First Class)

Academic Projects

M. Tech, Thesis Project (Jul 12 - Jul 13) (Individual Project)

Natural Language Interface to Robotics System [Guide: Prof Pushpak Bhattacharyya]

A rule based system was prototyped to interpret and execute (simulate) natural language commands. A home environment with PR2 robot was simulated in Gazebo simulator, with ROS electric as the framework. A GUI was created to type the command, and intended action were executed in the simulated environment. A LISP like language was developed on top of JAVA to interpret the rules. The system was able to execute navigational commands like 'Move to the left of the yellow chair'

Computer Vision, Course Project (Jan 12 - Apr 12) (Individual Project)

Spatial Relations Detection Using Kinect [Guide: Prof Sharat Chandran]

An indoor scene was captured using kinect. With help of PCL libraries, ground plane and big objects like tables, chair, racks were detected and the scene was reconstructed in 3D. Then, movement of a person is tracked, using Kinect (OpenNI), and spatial relation (like across, toward, away etc.) with respect to the objects (like table, chair, door etc.) is detected in real time.

M. Tech Seminar (Jan 11 – Apr 11) (Individual Project)

Semantic Structure and Knowledge Networks [Guide: Prof Pushpak Bhattacharyya]

Following knowledge networks were presented in the seminar: ConceptNet, WordNet, PropBank, FrameNet, VerbNet, HowNet. VerbOcean and PrepNet.

Statistical Relational Learning, Course Project (Jan 11 – Apr 11) (In group of 2)

Subjectivity Detection using ALEPH [Guide: Prof Ganesh Ramakrishnan]

Human interpretable rules, to detect subjectivity, were extracted using ALEPH, using pre-tagged corpus of subjective and objective sentences.

B. E Thesis Project (Jul 2006 – Jul 2007) (In group of 3)

Office automatization using robotics system [Guide Mrs. Surekha K.S]

Developed a system, with line follower robot, to transfer stationary from one cubicle to the other in an office environment. All the cubicles in the office were connected with a black line, which the robot can recognize and follow. The robot was requested using a GUI, and each request is queued to a central server. The server communicates with the robot using IR transceiver located on the ceiling of the office.

Talks delivered

- Talk on Lexical Knowledge Structures at IIIT Hyderabad in IASNLP 2012. Covered ConceptNet, YAGO and VerbOcean.

Work Experience

Microsoft India Development Center (Program Manager) [Jul 2013 – Sep 2016]

- PM work: includes writing feature specification, collaborating across the teams in Microsoft and ensuring that development happens as per the specifications written:
 - Print Enhancement for PDF Reader app for Windows 8.1
 - Universal Voice Recorder app for Windows 10 (Mobile, PC and Tablets)
 - Layout, Rotate and Zoom for PDF in EDGE Browser for Windows 10.1, accounting for top 30% of feature request in PDF in EDGE.
- Data Scientist work: includes gaining insights from telemetry and user feedback
 - Developed telemetry pipeline, for the Windows apps of our team, to gauge the feature usage and improvements. I was also given a star award for this endeavor.
 - Worked as data scientist in Microsoft's Azure team.

Software Engineer at the M.Tech college (Indian Institute of Technology Bombay) [Jul 10 – Jul 13]

- Developed and maintained the internal academic sites of IIT Bombay.

System Engineer at Infosys Technologies Ltd (System Engineer) [Nov 07 – Jul 10]

- Automatizing the financial reporting system of Shinsei Ltd Bank, Tokyo, Japan.
- Software to centralize BMW financial services.

Skill Set

Languages: Java, C/C++, C#, Python, SQL, SCOPE, HTML, JS, LISP, Octave

Platforms: J2E, JSP, .NET, Cosmos

Others

- Got 1st prize in *creation 2008*, a mechanical model building competition.
- Participated in several coding and model building contests throughout my BE, and won several prizes.
- Completed an intensive 4 months judo/self-defense course at IIT Bombay.
- Yellow belt in Taekwondo from World Taekwondo Federation.
- Did 10 day Vipassana meditation, twice.
- Like reading and playing music (amateur guitarist).