

## VIJAYALEKSHMI KESAVAN

### PRESENT ADDRESS

Room No. 259,  
Sharavati Hostel, IIT Madras,  
Chennai-600036.

**Mobile:** +919444665098

### PERMANENT ADDRESS

Sukandaram Nivas,  
Puzhavathu, Changanacherry,  
Kerala-686101

**Email:** vijayalekshmikesavan@gmail.com

### EDUCATIONAL QUALIFICATIONS

Degree and Branch	Institute / University	Duration	% / CGPA
MTech, Computer Science and Engineering	Indian Institute of Technology, Madras	2007-2009 (expected)	8.95/10 (till Semester 3)
BTech, Computer Science and Engineering	TKM College of Engg., Kollam / Kerala University	2003-2007	8.3/10
Higher Secondary Education(XII)	SCSHSS, Thiruvalla / Board of Higher Secondary Examination, Kerala	2001-2003	92.83%
Secondary Education(X)	SCSHSS, Thiruvalla / Board of Secondary Examination, Kerala	2001	85.33%

### RELEVANT COURSES UNDERTAKEN

**MTech:** Advanced Data Structures and Algorithms, Topics in Approximation and Randomized Algorithms and Zero Knowledge Protocols, Reinforcement Learning, Data Mining, Advanced Computer Networks, Real-time Computing and Communication, Advanced Computer Architecture, Software Engineering: Theory and Practice, Mathematical Concepts in Computer Science.

**BTech:** Computational Geometry, Algorithm Analysis and Design, Distributed Systems, Cryptography and Network Security, Wireless Networks, Information System for Managers.

### ACADEMIC PROJECTS UNDERTAKEN

- Computational Geometry based Path planning and Visibility polygon detection (2006-2007)  
Developed and implemented novel algorithms for two tasks. (1) Finding the shortest path for a point robot in a room with polygonal obstacles. (2) Finding the visibility polygon for a point light source in a room with polygonal obstacles.
- Air Conditioner Maintenance and Complaint Tracking Software for IIT Madras.(2007)  
Developed in PHP-MySQL-Apache platform and deployed in IIT Madras Intranet. It was part of a course in Software Engineering.
- Active Machine Learning and its applications in Transfer Learning (2008-2009)  
This is an ongoing research work that finds application in Transfer learning of robots. We use active learning, which is a technique widely used by supervised learning algorithms.

### RELEVANT SKILL SETS

**Programming languages:** C, C++, SQL, PHP, Perl, Tcl, Verilog

**Databases:** MySQL, Oracle

**Tools:** Matlab, Weka, ns2-Network Simulator, Gnuplot, Latex

**Programming Tools:** Vi, gdb, make, RCS, Eclipse

### HONORS AND AWARDS

- TCS Best Student Award during under-graduate studies in TKM CE, Kollam in 2007
- College Topper and University 4th Rank holder for BTech
- School and District level topper for Higher Secondary Examination
- Outstanding TA (Teaching Assistant) award for odd semester, 2009 in IIT Madras.