

## Dr. Naveen Aggarwal

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### Academic Qualification

Standard	Year	Board/Univ	Remarks
B.E. (CSE.)	2000	Punjab Tech. Univ.	1 <sup>st</sup> in College, 3 <sup>rd</sup> in University. Bronze medallist
M.Tech (CSE)	2002	IIT Kharagpur	2nd in the IIT
Ph.D	2011	GGs IP University, Delhi	

### Work Experience

Institution	Designation	Year/Session	Class	Subjects
UIET, Panjab University. Chandigarh	Assoc. Prof,	Oct 2015 to Till Date	B.E.(CSE) M.E (CSE)	AI, Business Intelligence & Data Mining, Information Retrieval
UIET, Panjab University. Chandigarh	Asstt. Prof,	Feb 2005 to Oct 2015	B.E.(CSE) M.E (CSE)	Software Engg., AI, Digital Image Processing, Multimedia Computing, Data Warehousing & Data Mining
Punjab Engg. College, Chandigarh.	Lecturer	Feb 2002 to Feb2005	B.E. (CSE) & M.E. (IT)	Comp. Arch., DBMS, Object Oriented Modeling, Data Warehousing & Data Mining, AI, OS

**Total Experience: 16 + years**

**Total Publications: 120+**

International Journals: 40+ (More than 15 SCI/SCIE Publications), International Book chapters: 12,

International Conferences: 38, National Conferences: 30

**Books Published: 01 for GATE Entrance Exam Preparation by CENGAGE Publishers**

**Patent Published: Indian Patent Journal on RFID Based Multipurpose Traffic Light System**

**ME Students Guided: 38+, PhD Students: 08**

### Professional Membership

- Member IEEE (Membership No: **92663937**) & Member ACM (Membership No: **9053448**)
- IIT Kharagpur, Lifetime Alumni Membership
- ISB CEE Alumni Membership
- Life Member of HEMSI
- Life Member of Computer Society of India & Life Member of CSTA
- Senior Member IJCSITA
- Senior Member of International Association of Computer Science and Information Technology

## **Projects**

S.No	Name of Project	Sponsoring Agency	Duration (Period)	Role	Amount Sanctioned
1.	Design Innovation Centre: Subtheme: Traffic Sensing & Information Technologies	MHRD	3 Years 2015-2018	Principle Investigator	Rs 10 Crores for full project
2.	CARTS: Communication Assisted Road Transport System	ITRA, Media Lab Asia (DEITY)	3 Years (2013-2015)	Principle Investigator	Total=1.28 Crores (RS 12.6 lacs for UIET)
3.	Armor Wire Tester	Oceaneering Pvt. Ltd.	1 Year (2016)	Joint Investigator	7 Lacs +
4.	A tool based Effort Estimation Model	Infosys Technologies Ltd.	Six Months (June 2006-December 2006)	Principle Investigator	1 Lacs
5.	SMS Based Result Information System	Panjab University	Six Months (January 2007- June 2007)	Principle Designer	10000
6.	Speaker Recognition and Identification for VoIP	MHRD under TEQIP-II	One Year (2013-2014)	Principle Investigator	1.20 lacs
7.	Subjective Assessment of Video quality for validation of objective metrics	MHRD under TEQIP-II	One Year (2013-2014)	Principle Investigator	1.33 lacs
8.	TEQIP-II Implementation in various institutes at Chandigarh	World Bank through MHRD	Three Years 2012-2015	Consultant at State Project Facilitation Unit.	

## **Industrial projects Completed**

1. Effort Estimation Model developed for Axede Corp USA in 2008.
2. Content Management System development for Infosys Technologies Ltd (Patents obtained by Infosys technologies Ltd.) in 2006.
3. Cost Effort Estimation tool for Birlasoft technologies. (Patent obtained by Birlasoft technologies) in 2008-09.
4. “Intelligent Keyword Extraction System in 2018 for IDS Infotech Limited.

## **Awards & Honors:**

- **Procurement coordinator and consultant** at State Project Facilitation Unit of UT Chandigarh for TEQIP-II project being implement in Technical institutes of Chandigarh (Total Amount = Rs 30 Crore). From Feb 2012 to Jan 2014.
- **Outstanding Faculty Contributor** award by Infosys Technologies Pvt. Ltd.
- Successfully Completed a Sabbatical project “**Tool based Estimation Model Development**” at Infosys Chandigarh in August 2006.
- Imparted training to more than 1000 personnel to use Electronic Voting machines during 2004 Lok Sabha Elections of Govt of India.

- CMS Effort Estimation Model is developed in collaboration with BirlaSoft Corp., India
- Appreciation letter from Dr. M.P. Ravindra, Vice President and head Education and Research Deptt, Infosys Technologies Ltd. for Sabbatical project undertaken at Infosys technologies.
- Appreciation Letter from CEO, AXEDE Corp, USA for developing CMS Effort Estimation Model for their organization.
- Awarded Rs 10,000/- by Prof. R.C. Sobti to develop SMS based attendance management system in UIET.
- Awarded Bronze medal for standing third in graduation by Punjab Technical University.

### **Achievements:**

- **Organizing Secretary** of 3<sup>rd</sup> **International conference** on Biomedical Engineering and Assistive Technologies (BEATS-2014), February 14-15, 2014.
- Consultant and Nodal Officer for Procurement, Finance and Management in State Project Facilitation Unit, UT Chandigarh for TEQIP-II.
- NBA Core team member to implement NBA regulations in UIET and prepared NBA proposal for UIET.
- Awarded Rs 25,000/- for Best Paper Prize for Paper “Automatic triggering of Acoustic Sensing by Human Activity Recognition using the Accelerometer” in ACM Compute 2018.
- Joint Admission Committee Member to organize BE Admissions during session 2013-14, 2017-18, 2018-19.
- Delivered More than 50 Expert lectures at Various Forums / Refresher Courses / FDP / Short term courses / Workshops.
- Setup two Design Innovation Centre Labs (Sensor Lab and Computer Vision Lab) in CSE Department
- Setup PU DATA set Server (pudataset.puchd.ac.in) to provide Storage as a Service (SaaS) for online management and dissemination of the data collected by various departments using DSPACE Server solution.
- Setup servers to provide Infrastructure as a Service (IaaS) by providing virtual machines on Cloud.
- Technical Committee Member of IEEE International conference on Recent Advances in Engineering and Computational Sciences, organized by Panjab University on 6-8 March 2013 and in December 2016.
- Technical Committee Member of more than 20 International conferences such as ICIIP-2013, 2014, Confluence, 2014-2018, ICCTD 2011 etc.
- Assisted PEC, Chandigarh, IT Department to get ISO 9001 certification in 2003.
- Technical program Committee Member of Int Journal of Computing and Digital Systems.
- Awarded Best Paper Prize for paper “**Analysis of Lung Segmentation and Boundary Correction Techniques on Lung CT Image**” in CHASCON 2012.
- Awarded Best Paper Prize for paper “**Real Time Human Activity Recognition Using Shape-from-Motion Reconstruction**” in CHASCON 2008.

- Attended more than 20 different Workshops / STC / Seminars / Symposium / Conferences.

### **Workshops and Programs Conducted:**

- Organized More than 30 Workshops / Seminars in UIET in last 10 years.
- Prepared e-contents for more than 6 courses.
- Successfully Conducted Infosys Foundation Program for students of UIET, DCET and SSGPURC, Hoshiarpur during the session 2008-2009
- Successfully completed the second year of Sun Campus Ambassador program at UIET, Panjab University. Under this program 4 workshops and 4 tutorial program are conducted.
- Organized a Faculty Workshop on Microsoft .Net technologies from 31 Jan to 2nd Feb 2009.
- Organized a Workshop on IPR in UIET in Feb 2009.
- Organized the various contests under Infosys Aspirations 2020 program at state level and national level.
- Coordinator of Infosys Sponsored One-day workshop on Business Intelligence conducted on 24<sup>th</sup> February 2012 at UIET, Panjab University, Chandigarh.
- Co-Coordinator of One-day workshop on MATLAB conducted on 17<sup>th</sup> July 2012, sponsored by TEQIP-II Program at Panjab University, Chandigarh.
- Coordinator of TEQIP Sponsored Two Week National Level Faculty Development Program on “MATLAB Fundamentals and Neural Networks & Fuzzy Logic Toolboxes” from 3-14 December 2012 at UIET, Panjab University, Chandigarh.
- Organized a Robotics and Web Designing Workshop for School Students under the aegis of National Academy of Sciences, India.
- Infosys Webinar Series hosted every year in UIET.