

Utkarsh Gupta

Department of Computer Science and Engineering
Indian Institute of Technology, Patna
<https://www.linkedin.com/pub/utkarsh-gupta/91/780/58a>

Email: utkarsh.cs12@iitp.ac.in
Phone No: +91-7631467803
<https://www.quora.com/Utkarsh-Gupta-57>

Education

Year	Institution	Degree	CPI/Percentage
2012-16	IIT Patna	B.Tech.	7.99/10 **
2012	Sir Padam Path Singhanian School, Kota, Rajasthan	Higher Secondary Certificate, CBSE Board.	82%
2010	Seth Anand Ram Jaipuria School, Kanpur	Higher Secondary Certificate, ICSE Board.	85.6%

Summer Internships and Opportunities

- ❖ 2nd year Internship 2014 in **IIT Patna**. Designed packet scheduling efficient algorithm in Cognitive Radio Technology.
- ❖ 3rd year Internship 2015 on **Machine Learning and Data Analytics using R-tool** in **Robert Bosch Engg. And Business Solutions Limited** (RBEI, India) under guidance of lead researcher **Dr. Kumar Padmanabh** . <http://www.padmanabh.org/>
- ❖ B.Tech project 2015 on **Next Generation Wireless Technology** (NGWT) & **LTE** under guidance of Dr. Rajiv Misra.

Publications and Reports

Member in Cognitive Radio Networks (CRN) research under the guidance of Dr Rajiv Misra <http://goo.gl/6ybeHp> [2014-2015]

- ❖ "QoS Based Opportunistic Channel Scheduling in Cognitive Radio Networks" problem for Efficient Spectrum Allocation. (Accepted in IEEE TENCON 2014) <http://goo.gl/tqQs4R> <https://github.com/UTK7994/Cognitive-Radios>
- ❖ "Markov Chain Analysis in Opportunistic Spectrum Access" in CR Network with Finite Primary and Secondary Users. (Accepted in IEEE ICDCN 2014) <https://github.com/UTK7994/Markov-chain-Analysis>
- ❖ 'Development of cognitive radio technology and advanced scheduling techniques' as Seminar report. <http://goo.gl/XSF73l>
- ❖ 'On the AKS primality testing Algorithm and its history in number theory' as Algorithm project report. <http://goo.gl/oKL3Y0>

Android and Java based projects

[2014]

- ❖ Designing and developed algorithm for "Road Viper" telling Shortest Safest between 2 points using **Road-Priority-System**.
- ❖ Designed and tested "Environ meter" that senses various aspects of surroundings using In-built hardware sensors.

Visual Basics projects

[2013]

- ❖ Designed a **Tic-Tac-Toe program** with 2 player options. <http://goo.gl/WWCJhQ>

Academic Projects

IIT Patna Mess Management System Website Design

[2014]

- ❖ Designed, developed and maintained website for managing the IIT Patna Mess using HTML, CSS, JavaScript and PHP.
- ❖ Designed a **JAVA CODE INDENTOR** program using java which takes Pseudo Code as input and gives indented code as Output.

Polynomial Calculus Problem Solver

[2014]

- ❖ Created and Implemented java based program incorporating **Polynomial Integrator, Differentiator Definite & Integration**.

Mongo DB and Python

[2014]

- ❖ Designed user friendly **StudentDatabaseManagement** using PyMongo. <https://github.com/UTK7994/PyMongo1/tree/master>

Areas of Interest

- ❖ Solving complex mathematical and logical problems frequently on www.brilliant.org
- ❖ Athletics, Mathematics (Calculus Geek and Algebra), Teaching IITJEE mathematics, Science Fiction movies, travelling.

Extracurricular Activities and Sports

- ❖ 400m race Bronze medallist 3rd Position [2007-2008]
- ❖ Long Jump Silver medallist 2nd Position [2006-2007]

Software Skills and Languages Known

Ubuntu	Java 7	VisualBasic*	MongoDb	Eclipse	HTML	PHP	Netbeans	MongoVue	Robomongo	FileZilla
Windows	Python	Algorithms	JavaScript	Batch	CSS	XML	Matlab	Net-logo	ConEmu	PyCharm

** Expected Graduation in 2016. *Not very used to.