

Vikramank Singh

CONTACT INFORMATION

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RESEARCH INTERESTS

Data Analytics, Data Mining and Visualization, Pattern Recognition, Machine Learning, Operation Research

EDUCATION

Vivekanand Education Society's Institute of Technology
University of Mumbai, Mumbai India.
Bachelors of Engineering

July 2012 - August 2016 (*Expected*)

Majors - Computer Engineering
CGPA - 8.17 / 10.00

Higher Secondary
Minors - Electronics and Telecommunication
CGPA - 10.00 / 10.00

July 2010 - June 2012

ACADEMIC HONORS

Selected as an **Undergraduate Research Associate** at **IIM Ahmedabad** in the IIIrd year of Engineering.
Awarded a **Research Fellowship** at **IISc Bangalore** in IIInd year of Engineering.
Secured **Rank 1** in Department of Computer Engineering in 1st Sem with **9.56/10.0** GPA.
Secured **AP** grade for the excellent performance in the CS 203: **Data Structures**, CS 204: **Discrete Structures**.
Secured **3rd Rank** in Senior Secondary High School with **90.5%**.
Obtained **196/200** in **Electronics and Telecommunication** and secured **State Rank 3**.
Cleared All India Engineering Entrance Exam with **98.64** percentile.
Cleared Maharashtra Common Entrance Test with **99.5** percentile.
Obtained **Rank 1** in High School with **94.18%**.

WORK EXPERIENCE

Indian Institute of Management, Ahmedabad, India.
Undergraduate Research Associate

January 2015 - Present
Mentor: Dr.Kavitha Ranganathan

Working on a Research Project to detect complex patterns in ad hoc networks and implement file sharing in a University Campus in a peer-to-peer fashion where data dissemination among the mobile peers over distances is a challenge.

Working with various Data Visualization systems and performing analysis on large scale data sets using distributed algorithms to explore the pattern in a student's pathway and disambiguation.

Working with various open source softwares like Tableau Public to analyze a pertinent mobility model to characterize user mobility in a civilian environment, and the usability of the proposed algorithm.

YourStory Media Pvt. Ltd, Bangalore, India.
Research Data Analyst, Intern

December 2014 - January 2015
Mentor: Jubin Mehta

Conducted Research on the Failed Startups of the year 2014.
Used various programming languages like SaS and R to perform analysis on the raw data to visualize it and deduce a hypothesis on what were the reasons of decline and expected trend in the near future.
On the basis of the reports generated, used predictive analytics to predict upcoming startups in 2015.
Conducted a Research on the data of most Successful Apps of year 2014 and the reasons behind the success.

Indian Academy of Sciences, IISc Bangalore, India.
Research Fellow

June 2014 - October 2014
Mentor: Dr. Sudarshan Iyengar

Conducted a Research on the Prediction of virality in an Online Social Network.
Used Python for generation of various directed and undirected graphs which resembled the user connections in social networking sites like Facebook and Twitter.
Used Twitter and Facebook APIs to extract real time data to test the synthetic model created theoretically.
Used various open source Data Visualization tools like Gephi to analyze the pattern in the trend of sceptical and regular users to generate a Core Periphery Structure using Preferential Attachment Model and based on the inferences predict the factors which make a post or a tweet viral.

ThinkLabs Technosolutions Pvt.Ltd, Sine IIT Bombay, Mumbai, India. **December 2013 - February 2014**
Embedded Systems, Intern

Built remote controlled, BEAM, PC controlled & Micro controller based Robots.
Programmed the ATmega16 microcontroller using I/O Ports.
Worked with Actuators, DC geared, Stepper & RC Servo motors and Line detection & Junction detecting sensors.
Completed 4 projects which included Line Follower, Wall Follower, Interfacing PC with bot etc.

PRESTOO Games, Bangalore, India. **October 2013 - January 2014**
Game Designer, Intern Mentor: Bullipe Reddy

Worked as the Game-Designer during the internship.
Designed games on topics of Physics, Chemistry and Mathematics for students to enhance their concepts using medium of gaming.
Worked in a team which comprised of game designers and developers which developed games on platforms like Android and IOS.

**KEY
PROJECTS**

Learning Beyond Syllabus (LBS) Research Project **October 2014 - Present**
Patient Monitoring System - Health Care Data Management and Analysis Prof: Ashwini Sawant

Developing a Biomedical Equipment which can act a monitoring system or a tool which can record various parameters like Body Temperature, Pulse Rate 24x7 of the patient.
The controller module (Microcontroller) controls the sensors and processes the data produced by them. The received data is thus analyzed and on exceeding normal limits, a notification alert for the same is sent to the respective doctor via SMS.
Used Atmel Studio 6.0 & Embedded C for programming on the AVR Atmega32 Microcontroller which was used.
Got selected for this LBS programme among all the third year undergraduates of the Department on the basis of academic records and scope of real time application of the proposed project.

Data Mining and Visualization Research Project **January 2014 - Present**
Enabling Grassroots Communication- Data Visualization and Cluster Analysis Prof: Dr.Kavitha Ranganathan

Researched on various Data Visualization techniques to identify clusters for sharing of files in an ad hoc network (a University Campus).
Developed models for predicting likelihood of formation of clusters and then perform cluster analysis to generate some most trusted cluster patterns using which data can be traversed in a network.
Used C programming to extract large data sets from Excel sheets, run algorithms on the data and then export the data again in form of excel to visualize the pattern.

Data Analytics Research Project **December 2014 - January 2015**
Data Mining and Analysis - Case Study of failed Startups in 2014 Mentor: Mr.Jubin Mehta

Explored the arena of startups who failed in this particular year, collected the raw data from multiple resources visualized the data and performed analytics to draw conclusion on the reasons behind their failure.
Used programming languages like SaS to develop statistical models and graphics to summarise the result.
On the basis of the analytical report, predicted the trend of startups in next few years.
Became the most read case study of year 2014 in India and also got viral on social media with 2500+ views, retweets and shares.

Undergraduate Research Project **June 2014 - October 2014**
Social Network Analysis- Prediction of Virality in an Online Social Network Prof: Dr.Sudarshan Iyengar

Used concept of core periphery structure to detect the spread of virality and worked on python to generate real world connectivity graphs.
Used Twitter and Facebook APIs to extract real time data to test the synthetic model created theoretically.
Developed Synthetic Models to demonstrate Real Time Facebook Graphs and test the Mathematical formulas derived theoretically.
Worked with the citation network and the collaboration network formed in the field of high energy physics theory.

Web Development Course Project
Personalised News Aggregator

August 2014 - November 2014
Prof: Priya RL

Developed a web application which collected latest news stories from the Internet and presented users with the stories that suits his/her preferences.
Performed Semantic Analysis and Categorization of news stories in Freebase topics.

Embedded Systems Internship Project
PC Interfaced wireless Bot

December 2013 - February 2014

Interfaced CC2500 to ATMEGA16 and Computer. Configured it to different modes. Transmitting and receiving multi byte data between microcontroller and computer .Used Accelerometer and wireless communication for Swarm robotics (Level III robotics).

TECHNICAL SKILLS

Programming C, C++, Embedded C, Java, Python, MapReduce, SaS, Visual Basic, VBA
Web Development HTML/CSS, XML, JavaScript/AJAX, PHP
Database SQL / MySQL
Software Packages Hadoop, Tableau, Gephi, GEdit, Scilab, OpenCV, NetBeans, Eclipse, Xilinx
Platforms Windows,Mac, Ubuntu, Linux,Fedora

PUBLICATIONS (Research)

Top 14 Indian Newsmakers in 2014 - Data Analysis **31st December 2014**
YourStory Media Pvt. Ltd
Co-Author - Pallavi Sinha
<http://yourstory.com/2014/12/top-india-news-makers-year-2014/>

Case Study on Upcoming Startups to work in 2015 - Predictive Analysis (Part II) **30th December 2014**
YourStory Media Pvt. Ltd
Co-Author - Abhash Kumar
<http://yourstory.com/2014/12/top-startups-india-work-job-employee/>

Case Study on Failed StartUps 2014 - Data Analysis (Part I) **23rd December 2014**
YourStory Media Pvt. Ltd
Co-Author - Jubin Mehta
<http://yourstory.com/2014/12/indian-startups-shut-2014/>

Case Study on Most downloaded apps of 2014 - Trend Analysis **18th December 2014**
YourStory Media Pvt. Ltd
Co-Author - Jubin Mehta
<http://yourstory.com/2014/12/most-downloaded-apps-2014/>

What topped the charts on Google in 2014 - Trend Analysis **17th December 2014**
YourStory Media Pvt. Ltd
Co-Author - Jubin Mehta
<http://yourstory.com/2014/12/2014-google-year-in-search/>

POSITION OF RESPONSIBILITY

Notemybook.com **January 2014 - Present**
Co-Founder, StartUp

Co-Founded a company which is an online platform to trade pre-owned text-books, novels.
Currently students of 10 colleges use our service.
Raised a seed capital of 50,000 INR from investors.
Got published in Hindustan Times,YourStory Media Pvt.Ltd, TheCampusEntrepreneurs, techaloo.com, Foradian.com, Techcircle.in, VCcircle.com, and many such Forums and Publications.
Published as a Startup of the Month (March) in ErudioMag.com
Selected as TOP-50 Technical Startups by IBM and HeadStart Foundations.
Recognised as Top Under-19 CEOs of India by IIM Indore and GTL Ventures.

Entrepreneurship Cell VESIT
Secretary and Founding Member, Committee

March 2014 - Present

Established Entrepreneurship Cell in college under the guidance of Few Alums.
Formed a working team comprising of students and a board of advisors comprising of established entrepreneurs and successful professionals.

Navya Education Academy Pvt. Ltd.
Founder, Committee

June 2012 - Present

Established the institute during 1st year of Engineering which imparts coaching to students of secondary and senior secondary students of CBSE and other state boards .
The institute is registered under Government of Maharashtra.
Working as a Tutor of Mathematics and Physics for both XI and XII grade students and also assisting the students in preparing for JEE , AIEEE and various other engineering exams.

Twenty19.com
Campus Ambassador, Executive Team

September 2013 - December 2013

Publicized Twenty19 in college through Info sessions, blogs, informal meets etc.
Guided students towards getting the internships they require, learn the courses they need and participate in events.

EXTRA
CURRICULAR

Obtained **Rank 1 in Logo Design** in Cultural Festival of college in University of Mumbai.
Obtained **Rank 1 in Aesthetics** in Illusion'14, an intracollege event held in 2014.
Received a call letter from **INDIAN ARMY** for the post of **Lieutenant** amongst candidates all over India on the base of Merit.
Represented Bharati vidyapeeth Cricket Team in an **Inter College Cricket Tournament** which secured runner up position in two consecutive years 2009 -10 organised by **MUMBAI CRICKET ASSOCIATION (MCA)**.
Cleared **Elementary Drawing Grade Examination** (Stage I) with **Grade 'A'** conducted by Maharashtra Government.
Cleared **Intermediate Drawing Grade Examination** (STAGE II) conducted by Maharashtra Government.

REFEREES

Prof. Kavitha Ranganathan
Associate Professor
IIM Ahmedabad
Ahmedabad, India
Contact: Available on Request

Mr. Jubin Mehta
Writer, Editor Head & Analyst
YourStory Media Pvt.Ltd
Bangalore, India.
Contact: Available on Request

Prof. Abha Tewari
Assistant Professor
VES Institute of Technology
Mumbai, India
Contact: Available on Request

Prof. Lifna CS
Assistant Professor
VES Institute of Technology
Mumbai, India
Contact: Available on Request

Prof. Priya RL
Assistant Professor
VES Institute of Technology
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Mr. Bullipe Reddy
Co-Founder
PRESTOO Games
Bangalore, India
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