

# Tushar K. Shinde

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## Education

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### IISc (Indian Institute of Science)

M.TECH. IN COMPUTER SCIENCE AND AUTOMATION

- Masters' Thesis Advisor: Prof. Shalabh Bhatnagar (Reinforcement Learning)

*Bangalore, India*

*August 2016 - June 2018*

### VNIT (Visvesvaraya National Institute of Technology)

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

- Bachelors' Project Advisor: Dr. Dipti Shrimankar

*Nagpur, India*

*July 2010 - August 2014*

## Achievements & Honors

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- 2016** Secured All India Rank – 37 in GATE from CS stream, the entrance exam for post-graduation studies in India.
- 2017** Selected for Biz-World 2017 Entrepreneurial Conference (Seoul, South Korea).
- 2017** Speaker for Creative Artificial Intelligence at Summer School, IISc
- 2016** Second runner up at IIM-B Vista 2016 Data Analytics Competition
- 2015** Best 20 in hackathon arranged by Mindtree for building a 'Customer feedback app for Airlines' with Speech-to-Text.
- 2015** Token of Honour from Raman Science Center, Nagpur in Science Expo arranged by Ministry of Culture, GOI.
- 2014** Presented solar auto-rickshaw in Consortium-14, annual business fest at VNIT, Nagpur, covered by Times of India.

## Work Experience

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### Senior Associate - Data Science @ Publicis.Sapient

JULY, 2018 - PRESENT

- Publicis.Sapient is world's first customer experience company, creating and engineering highly relevant experiences that accelerate business growth and fuel brands through storytelling. Work covers the projects and R&D around machine learning and data sciences.

### Organolite

MAY, 2014 - DECEMBER, 2014

- At Organolite, as a co-founder, we built an online organic store and created a supply chain based delivery model. For the online organic store, we used to handle end-to-end procurement and distribution.

### Tech4Art

JANUARY, 2014 - DECEMBER, 2014

- At this second start-up venture, developed two products, a web based educational mini Enterprise Resource Planning (ERP) system and a Customer Relationship Manager (CRM) for local markets.

### Promax Digital Pvt. Ltd.

FEBRUARY, 2015 - SEPTEMBER, 2015

- Worked as a front end developer, designer on two major products - Cardiomeet (cardiomeet.org), the first content sharing network for cardiologists and - Reacho (reacho.in).

### IARE Robotics (Internship)

MAY, 2013 - JULY, 2013

- Worked on basic principles in embedded systems and Robotics. Worked on hypothetical use cases and challenges in industrial robotic arms that helped shaping the productivity and efficiency.

## Academic Projects

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### Control Policies for textual games using Deep Reinforcement Learning

MASTERS' THESIS; MENTOR: PROF. SHALABH BHATNAGAR

- The underlying purpose of this two phased project is to understand the meaning of the textual content and find out the necessary actions for an agent to survive in game environment where underlying game states are not directly observable.

### Topic modelling for short texts

MENTOR: PROF. SHIRISH SHEVADE, DR. SUNDARRAJAN (MSR, INDIA)

- We are trying to propose a model that combines the best techniques of all state of the art models for classifying short texts into various topics and showing the utility of our framework in learning and classifying short texts on Twitter data for English and Spanish.

### A longitudinal vehicle movement model for Indian traffic conditions

MENTOR: PROF. CHIRANJIB BHATTACHARYA, AADIRUPA SAHA

- A neural network based architecture is used for calculating speeds of individual vehicles which will then be used in traffic simulators for analyzing traffic issues and their solutions.

### Analyzing the Effects of Victim Caching

MENTOR: PROF. MATTHEW JACOB

- Our report has brought the improvements caused by the usage of victim caches for level 1 and level 2 caches in limelight with respect to actual percentages and bigger benchmark programs having the memory traces of about 130 million.

### Dynamic Signal Scheduling Policy Implementation

MENTOR: PROF. DIPTI SHRIMANKAR

- This method easily overcame most of the drawbacks of fixed signal timing allocation due to the fact that it was achieved by uniformly distributing cycle timing over the load at each lane, so the average waiting time was significantly reduced.

## Other Projects

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### Forecasting Stock Market Index (Ongoing)

- Forecasting next day's OLHC data for Nifty 50 index using Artificial Neural Networks.

### Sentiment Analysis for IMDB Movie Reviews

- To learn reviewers' words and classify their attitudes into either positive or negative ones. (via Logistic Regression and FF Neural Nets)

### Freelancing and other projects

- Designing of web applications, content writing, SEO and social media marketing.

## Co-and-Extracurricular Activities

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- Student placement coordinator for 2017-18 at IISc, Bangalore.
- Served as a Mathematics teacher for grades VI to X at Orchids International, Bangalore
- President of 'Astronomy Club' in VNIT for the academic year 2012-13.
- Logistics head for the 'Consortium-2013', the international annual business festival of VNIT.
- Organizing volunteer for the First Annual Global Nagpur Summit-2014.
- Organizer and speaker for the seminar on General Relativity & Fourth Dimension in undergrad.
- The Last Day, my short film was selected for top 30 college short films of India for Cinematography at DCS, Pune. Cinematographer for indie feature film - Raahi.

## Graduate Courses

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**Theory/Systems** Design and Analysis of Algorithms, Computer Architecture

**Intelligent Systems** Deep Learning for NLP, Machine Learning, Practical Data Science

## Skills

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**Machine Learning** Classification, Regression, Deep Learning, NLP

**Software Packages** Matlab, iPython Notebooks, Codeigniter, Deziign

**Programming/Scripts** C, C++, PHP, HTML/CSS3, AngularJS, SQL

**Others** Photography, Poetry and Story Writing, Binge Watching :)

I hereby acknowledge that the information furnished above is correct to the best of my knowledge.

Tushar Shinde