

Tushar K. Shinde

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Education

IISc (Indian Institute of Science)

M.TECH. IN COMPUTER SCIENCE AND AUTOMATION

- Masters' Thesis Advisor: Prof. Shalabh Bhatnagar (Reinforcement Learning)
- CGPA: 6.5

Bangalore, India

August 2016 - PRESENT

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

- 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

Organolite

MAY, 2014 - DECEMBER, 2014

- At Organolite, my first start-up venture, we used to supply organic vegetables via both online and offline orders. In this supply chain based model, we used to handle end-to-end procurement and delivery.

Tech4Art

JANUARY, 2014 - DECEMBER, 2014

- At this second start-up, we developed two products, a web based educational mini ERP system and a Customer Relationship Manager (CRM) for local markets. Was basically involved in UI and customer segments.

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

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

Forecasting Stock Market Index (Ongoing)

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

Maximizing Advertising Revenue

- Maximize the revenue the vendors should get by finding the proper matches for a particular customer base (for Goodyaara.com)

Sentiment Analysis for IMDB Movie Reviews

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

Freelancing and other projects

- Designing of web apps, content writing, SEO, email list building, social media marketing.

Co-and-Extracurricular Activities

- 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 an undergrad event.
- The Last Day, my short film was selected for top 30 college short films of India for Cinematography at DCS, Pune. Cinematographer for indi feature film - RAAHI.

Graduate Courses

Theory/Systems Design and Analysis of Algorithms, Computer Architecture

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

Skills

Machine Learning Classification, Regression, Deep Learning, NLP

Software Packages Matlab, iPython Notebooks (Beginner), 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