

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
- 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
- CGPA: 5.2

Nagpur, India

July 2010 - August 2014

Academic Projects

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.

SVD and Non-Negative Matrix Factorization for image recovery

MENTOR: PROF. SHIRISH SHEVADE

- Given a partial (damaged) image, apply nmf and svd techniques in matlab to make the better approximations for damaged parts and generate the full image back.

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

Text Summarizer for Articles

- A small project for turning an article into a one-sentence summary in Python with the Keras machine learning library.

Maximizing Advertising Revenue

- While working with Goodyaara.com, which basically pays for users' attention for advertisements, tried applying few data science techniques to maximize the revenue the vendors should get by finding the proper matches for a particular vendor's customer base depending upon the industry he is dealing in. First exposure to machine learning just after undergrad.

IIM-B Vista2016 Data Analytics Competition

- A classification problem to classify whether a student will get placed or not, it was an imbalanced classification problem.

Freelancing and other projects

- Designing of web apps and small scripts. Categories were website and web components development, payment gateway integrations, content writing and online marketing via SEO, email list building, social media marketing.

Applications of Algorithms

- Application of Spectral Clustering, Decision Trees, Random Forests, Boosting and other regression algorithms on various datasets.

Work Experience

Organolite

MAY, 2014 - DECEMBER, 2014

- Organolite was the first start-up venture started by me and some friends from VNIT, Nagpur where we used to supply organic vegetables to the people across several areas of Nagpur (MH). It went well for some duration, but due to our failure on spreading local awareness about organic food, some storage-costing issues and a lack of business experience, we had to shut it down.

Tech4Art

JANUARY, 2014 - DECEMBER, 2014

- Under this second startup in final undergrad year, we developed two failed products i.e., CRM (Customer Relationship Manager) for local market, a stand-alone windows application and a web based educational mini ERP system (Enterprise Resource Planning) for coaching centers. I was involved as UI, workflow and database designer.

Promax Digital Pvt. Ltd.

JANUARY, 2014 - DECEMBER, 2014

- I worked for a local VC backed tech start-up company called Promax Digital Pvt. Ltd. as a front end developer, designer and worked on two main projects. UI designing for their product 'Cardiomeet' (<http://cardiomeet.org>), the first content sharing network for cardiologists and in second project I was the UX look and workflow designer for an android app called 'Reacho' (<http://reacho.in>).

Co-and-Extracurricular Activities

- Was the President of official 'Astronomy Club' in VNIT for the academic year 2012-13.
- Was the logistics head for the 'Consortium-2013', the international annual business festival of VNIT.
- Guest writer for science and technical categories at reacho.in.
- With Nagpur First, we have successfully organized the First Annual Global Nagpur Summit-2014.
- Bagged runner up for video-making contest & second runner up in Marathi Creative Writing in IG.
- Delivered seminar-cum-talk on General Relativity & Fourth Dimension in an undergrad event.
- My third short film, 'The Last Day' in which I have acted and directed was selected among top 30 college short films of India for Cinematography at DCS, University of Pune Film Festival. Cinematographer & assistant director for students' feature length film RAAHI.

Graduate Courses

Theoretical	Design and Analysis of Algorithms
Systems Engineering	Distributed Systems, Computer Architecture
Intelligent Systems	Probability and Statistics, Computational Methods of Optimization, Machine Learning, Practical Data Science

Skills

Machine Learning	Classification, Regression, Clustering, Feature Engineering, Neural Nets, Deep Learning
Software Packages	Matlab, iPython Notebooks (Beginner), Codeigniter, Deziign
Programming/Scripts	C, C++, Python, PHP, HTML/CSS3, AngularJS, SQL

Achievements & Honors

- 2016** Achieved All India Rank – 37 in GATE from CS stream, the entrance exam for post-graduation studies in India.
- 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.

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

Tushar Shinde