# Sharvil Katariya

DATA ENGINEER · COMPUTER SCIENCE UNDERGRAD

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## Education

**International Institute of Information Technology (IIIT)** *Hyderabad, India*

B.TECH IN COMPUTER SCIENCE ENGINEERING *Jul. 2013 - Aug. 2017*

- Teaching Assistant: Software Engineering

**Delhi Private School** *Dubai, UAE*

SECONDARY SCHOOL | CBSE BOARD *May. 2006 - May, 2013*

- Academic Excellence Award, on attaining a perfect 10 out of 10 CGPA for sophomore year(Grade 10).
- Blue Badge Award (Academic Excellence for 4 consecutive years)

## Publications

**A Personalized Health Recommendation System Based on Smartphone Calendar Events** *ICOST Conf.*

*June 2018*

Recommendation system that preserves privacy, based on inference made via calendar entries.

**Machine Learning for Secure Device Personalization Using Blockchain** *ICACCI Conf.*

*Sep 2018*

Device Personalization using Blockchain & ML Techniques.

## Experience

**Samsung** *Bengaluru*

SOFTWARE DEVELOPER *June 2017 - PRESENT*

- Working as a Data Scientist, for User Profiling using Machine Learning
- Published a Paper, titled "A Personalized Health Recommendation System based on Smartphone Calendar Events"
- Currently working on using CNN based ML models for NLP Tasks

**VMware** *Bengaluru*

CLOUD SOLUTION ARCHITECT & SOFTWARE ENGINEERING INTERN *May. 2016 - July. 2016*

- Worked on building a proximity based, cross-platform Smart TV solution, using web development architecture
- Architected an cloud-based solution as an extension to project's idea, for real-time analysis using Apache Spark Infrastructure.
- Chosen to work on Borathon (Annual Hackathon) winning project

**Connaizen** *Delhi*

MOBILE DEVELOPER *June 2015 - Aug 2015*

- Creation of Net-banking based Android Application, along with customization to user's location and interest, with the help of Machine Learning.
- Realization of User Experience Design along with social site integration

**Indian School of Business(ISB), Hyderabad** *Remote*

DATA ANALYST INTERN *June 2015 - July 2015*

- Worked on Data Segregation and to understand relationship between patent inventors network and the firms where they work at, with the help of clustering algorithms.

**Imaginate Software Labs** *Hyderabad*

SOFTWARE ENGINEER *Dec. 2014 - Feb. 2015*

- Built web application, named Hellopsych, for online video consultation with doctors.
- Presented HelloPsych at 67th Annual National Conference of the Indian Psychiatric Society (ANCIPS 2015), Hyderabad
- Worked on asynchronous processing of tasks, with the help of celery, along with the development of an secure payment flow.
- Incharge of Project Deployment on Apache Infrastructure, based on Django Framework, with the help of gunicorn and nginx.

## Projects

### Semantic Annotation - Wikipedia articles
ADVISOR - DR. VASUDEV VERMA

*SIEL Lab, IIIT*
*Mar. 2016 - Apr. 2016*

- The goal was to annotate a research paper, based on ACM classification tree and with an Wikipedia article that matches its contents most closely
- Application of different deep learning models & architecture models like DBOW(Distributed Bag of Words), DM(Distributed Memory).

### Temporal Prediction Models for Environmental Variables
ADVISOR - DR. AVINASH SHARMA, DR. SHAIK REHANA

*LSI Lab, IIIT*
*Feb. 2016 - Feb. 2017*

- Application of Machine Learning models, like Extreme Learning Models, RNN, etc. for time series prediction of stream temperature.

### Wikipedia Search Engine
ADVISOR - DR. VASUDEV VERMA

*SIEL Lab, IIIT*
*Jan. 2016 - Feb. 2016*

- Retrieve Wikipedia pages related to the query and order them according to relevance, along with the help of a 2-Tier Index

### Ultimate Tic Tac Toe Bot
ADVISOR - PRAVEEN PARUCHURI

*IIIT*
*Jan. 2015 - Mar. 2015*

- Designed a AI bot to play the Ultimate TicTacToe Game using MinMax Trees and AlphaBeta Pruning for optimal gameplay.
- Ranked 12th out of 100 teams in Intra-Class Bot Tournament.

### Carrom Game Application
ADVISOR - PROF. ANOOP NAMBOODIRI

*SIEL Lab, IIIT*
*Jan. 2016 - Feb. 2016*

- Created a 2D Carrom game using OpenGL, with designing the game's physics.

## Achievements

### First Place - IoTX Hackathon
DUBAI SMART GOVERNMENT

*Dubai, UAE*
*June 2015*

- Secured First Place for Smart Waste Management System, an Internet of Things project, to help in Search and Rescue Mission in case of emergencies.

### Top 10 Finalist - Gitex Student Lab
GITEX TECHNOLOGY WEEK

*Dubai*
*Oct. 2015*

- Developed an IoT based smart waste management solution
- Showcased the solution to top executives of technological firms like Google MENA

### Finalist - Pioneer's Makerthon
TATA AND TRYST

*Delhi*
*Feb. 2016*

- Created an Android Application, named "Bounty Hunter", that seeks to provide a messaging platform, to get chores done for a bounty
- Top 12 Finalist - showcased the application at IIT Delhi.

### Winner - Game On Event
FELICITY 2015

*Hyderabad*
*Feb. 2015*

- Developed an interactive voice-based game

## Technical Skills

### LANGUAGES

**Familiar**  Python, C, C++, Bash, Java, PHP, MIPS(Assembly), Scala, Matlab, Ruby, ARM

### FRAMEWORKS/TECHNOLOGIES

**General**  Android, HTML5, CSS3, Javascript (Node.js, Angularjs), Bower, Gulp
**Frameworks**  Django, Web2py, Ruby on Rails
**Databases**  MongoDB, MySQL, PostgreSQL, Cassandra, SQLite

### MISC.

**Tools/Libraries**  Fasttext, Spacy, scikit-learn, Docker, OpenCV, OpenGL, WebGL, gensim, theano, keras, nltk
**Embedded systems**  Arduino, Raspberry Pi, Intel Galileo
**Others**  Matlab, GPU Programming, LATEX, RabbitMQ, Redis, Mixpanel, Mininet, Hadoop, Cisco Packet Tracker

# Relevant Courses

Machine Learning, Information Retrieval & Extraction, Database Systems, Artificial Intelligence, Cloud Computing, Computer Graphics, Principles of Information Security, Advanced Computer Networks, Operating Systems, Internet of Things, Computer Networks, Algorithms, Compilers, Data Structures, Computer System Organization, Digital Signal Analysis & Appl., Introduction to Databases, Digital Logic & Processor, Structured systems analysis & design