

# Sharvil Katariya

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## EDUCATION

### STONY BROOK UNIVERSITY

MS IN COMPUTER SCIENCE

Expected Dec 2020 | Stony Brook NY

### IIIT HYDERABAD

BTECH IN COMPUTER SCIENCE

Grad. 2017 | Hyderabad, India

Teaching Assistant: Software Engineering

## PUBLICATION

### INDICON CONFERENCE

Coimbatore, India | Dec 2018

A Privacy Preserving Approach to  
Generating Personalized  
Recommendations Based on Short Text  
Classification

### ICACCI CONFERENCE

Bengaluru, India | Sep 2018

Machine Learning for Secure Device  
Personalization Using Blockchain.

### ICOST CONFERENCE

Singapore | Jun 2018

A Personalized Health Recommendation  
System Based on Smartphone Calendar  
Events.

## SKILLS

### PROGRAMMING LANGUAGES

Python • Java • C • C++ • Ruby • Scala

### TECHNOLOGY

Tensorflow • FastText • AWS • HTML5 •  
CSS3 • Javascript • Django • Hadoop •  
Spark • MATLAB • Docker • Perl

## COURSEWORK

### GRADUATE

Natural Language Processing  
Computer Vision  
Data Science Fundamentals  
Analysis of Algorithms

### UNDERGRADUATE

Machine Learning  
Complexity & Advanced Algorithm  
Operating Systems  
Database Systems  
Information Retrieval & Extraction  
Internet of Things  
Artificial Intelligence

## EXPERIENCE

### SAMSUNG | SENIOR SOFTWARE ENGINEER

Jun 2017 - Jul 2019 | Bengaluru, India

- Built a Generic Recommendation Platform, with a plug & play architecture for addition of any services.
- Devised short text classification models (including text based CNN models), that is fast & lightweight for life event & context prediction.
- Improved the ML model accuracy by 7% & remodeled the data pipeline
- Published 3 Research Papers and filed 1 Patent, primarily based on the work.
- Mentored new members and interns on the work done by the team.

### VMWARE | SOFTWARE ENGINEERING INTERN

May 2016 - Jul 2016 | Bengaluru, India

- Built a proximity based, cross-platform Smart TV solution
- Extended support of the project to work on 5 different Smart TV platform
- 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

## PROJECTS

### TEMPORAL PREDICTION MODELS | LSI LAB, IIIT

Achieved 96%  $R^2$  score for time series prediction of environmental variable.

### SEMANTIC ANNOTATION OF RESEARCH PAPERS | SIEL LAB, IIIT

Annotate any research paper, based on ACM's classification tree. Improved the accuracy to 97%

### STOCK PRICE TREND PREDICTION | IIIT

Find the right stocks for trading with the help of ML techniques. (400+ stars)

### WIKIPEDIA SEARCH ENGINE | INFORMATION EXTRACTION

A highly efficient indexer & retriever for Wikipedia dump of 56 GB, ordering Wikipedia pages related to the query.

## ACHIEVEMENTS

### SPOT AWARD | SAMSUNG R&D, BENGALURU

Jul, 2018 | Bengaluru, India

Best Employee Award for Data Intelligence team.

### PATENT | PS: 201841015708

April, 2018 | Bengaluru, India

Method & system for providing secure device personalization in smart home using blockchain.

### WINNER - IOTX HACKATHON | DUBAI SMART GOVERNMENT

June, 2015 | Dubai, UAE

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

### WINNER - GAME ON | FELICITY

Feb, 2015 | Hyderabad, India