# 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 • Keras • FastText • AWS • HTML5 • CSS3 • Javascript • Django • PHP • Spark • Android • Docker

## 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, that is fast and lightweight to run on resource constrained devices for life event and 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 the 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