

# Sharvil Katariya

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## EDUCATION

### STONY BROOK UNIVERSITY

#### MS IN COMPUTER SCIENCE

Expected Dec 2021 | Stony Brook NY

### IIIT HYDERABAD

#### BTECH IN COMPUTER SCIENCE

Grad. 2017 | Hyderabad, India

Teaching Assistant: Software Engineering

## PROJECTS

### TEMPORAL PREDICTION MODELS

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

### SEMANTIC ANNOTATION OF RESEARCH PAPERS

The goal was to annotate any research paper, based on ACM's classification tree. Improved the accuracy to 97%

### ULTIMATE TIC TAC TOE BOT

Designed a AI bot to play the Ultimate Tic-Tac-Toe Game. Ranked 12/100 teams.

## SKILLS

### LANGUAGES

Python • Java • C • C++ • Shell  
Matlab • Scala • Ruby •  $\LaTeX$   
C • C++ • CSS • PHP • Assembly

### FRAMEWORKS/TECHNOLOGY

Spark • Django • Android • Docker

## COURSEWORK

### GRADUATE

Natural Language Processing  
Computer Vision  
Data Science Fundamentals  
Analysis of Algorithms

### UNDERGRADUATE

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

## EXPERIENCE

### SAMSUNG | SENIOR SOFTWARE DEVELOPER

2017-2019 | Bengaluru, India

- Built a Generic Recommendation Platform, with a plug & play architecture for addition of any services.
- Devised short text classification models that are fast and lightweight to run on resource constrained devices.
- Improved the ML model accuracy by 7% & remodeled the preprocessing 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

## PUBLICATION

### ICOST CONFERENCE

Singapore | Jun 2018

A Personalized Health Recommendation System Based on Smartphone Calendar Events.

### ICACCI CONFERENCE

Bengaluru, India | Sep 2018

Machine Learning for Secure Device Personalization Using Blockchain.

### INDICON CONFERENCE

Coimbatore, India | Dec 2018

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

## PATENT

### SAMSUNG R&D, BENGALURU | PS: 201841015708

April, 2018 | Bengaluru, India

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

## ACHIEVEMENTS

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

Jul, 2018 | Bengaluru, India

Best Employee Award for the team.

### 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

Developed an interactive voice-based game, during College Festiv