

Sharvil Katariya

🏠 scorpionhiccup.github.io | in sharvilkatariya | 📧 scorpionhiccup

✉ skatariya@cs.stonybrook.edu | 📞 (+1) 631-891-9818 | 📍 700 Health Science Dr, Stony Brook, NY

EDUCATION

STONY BROOK UNIVERSITY

MS IN COMPUTER SCIENCE

Expected Dec 2020 | Stony Brook NY

Cum. GPA: 3.87/4.0

Teaching Assistant: Data Structures

IIIT HYDERABAD

BTECH IN COMPUTER SCIENCE

Grad. 2017 | Hyderabad, India

Teaching Assistant: Software Engineering

SKILLS

PROGRAMMING LANGUAGES

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

TECHNOLOGY

Tensorflow • Keras • PyTorch • Docker
HTML5 • CSS3 • Javascript • Django
PHP • Spark • Android • Perl • AWS
MySQL • DynamoDB • AngularJS • Gulp

PUBLICATIONS

INDICON CONFERENCE

Coimbatore, India | Dec 2018

A Privacy Preserving Approach to
Generate Personalized Recommendation
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.

COURSEWORK

GRADUATE

Machine Learning
Natural Language Processing
Computer Vision
Data Science Fundamentals
Analysis of Algorithms

UNDERGRADUATE

Complexity & Advanced Algorithm
Operating Systems (OS)
Data Structures
Artificial Intelligence

WORK EXPERIENCE & PROJECTS

MICROSOFT | DATA SCIENTIST INTERN

May 2020 - Ongoing | Bellevue, WA

- Evaluating various sequential models to improve the Ad Click and Conversion rates for the MSAN Team for Ads Re-ranking.
- Secured 2nd place in the CAI Hack for Good hackathon, for building an interactive virtual class solution in 24 hours.

SAMSUNG | SENIOR SOFTWARE ENGINEER (DATA INTELLIGENCE TEAM)

Jun 2017 - Jul 2019 | Bengaluru, India

- Developed scalable ML algorithms and production pipelines to predict smartphone users' demographics interests based on app usage, geolocation, browsing behavior and music/video usage with the help of Spark platform.
- Built a Generic Recommendation Platform, with a plug & play architecture for the addition of any new services to generate recommendations right off the bat.
- Devised short text classification models (including text-based CNN models, FastText, SVM), 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 2 Patent(s), based on the work done.

VMWARE | SOFTWARE ENGINEERING INTERN

May 2016 - Jul 2016 | Bengaluru, India

Developed a prototype to integrate Mobile Device Management agent Smart TV (across 5 different platforms) based on the proximity of the user carrying the mobile devices. Architected real-time processing using Apache Kafka & Spark Streaming to extract relevant information about meetings, using Outlook's REST APIs.

RETAIL ANALYSIS - COSTELLO STORE | GUIDANCE OF PROF. SKIENNA

- Analyzed Costello Ace Hardware Store's data to provide prospective locations for their new shops using geospatial analysis & data science.
- Product Recommendations for users on the basis of their long and short-term preferences, as well as leveraging the product's popularity.
- Demand forecasting of products by doing time series analysis using ARIMA to help the retail company to do a store wise assortment planning of the products.

ACTION RECOGNITION IN VIDEOS | COMPUTER VISION, SBU

Trained different CNN, LSTM and hybrid networks on VGGNet features extracted from UCF101 dataset for action recognition in videos. LSTM+CNN hybrid outperformed all the other architectures using PyTorch.

STOCK PRICE TREND PREDICTION | IIIT

Forecast stock returns on the basis of past returns & company sentiments from news, social media on the application of a variety of supervised ML techniques including many stock related features. (400+ stars)

ACHIEVEMENTS

July 2020	Third Place	MTA Back on Track Hackathon
June 2020	Second Place	C&AI Hack for Good intern Hackathon
Apr 2019	Patent	Machine Learning on Blockchain
Jul 2018	Spot Award	Best Employee Award (Data Intelligence team)
Apr 2018	Patent	Secure Device personalization using blockchain
Jun 2015	First Place	IoT Hackathon for Search and Rescue Mission Project