

Sharvil Katariya

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

✉ skatariya@cs.stonybrook.edu | ☎ (+1) 631-891-9818 | 📍 700 Health Sciences 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

Tensorflow • Keras • PyTorch • XGBoost
HTML5 • CSS3 • Javascript • PHP • AWS
Spark • Kafka • Android • Django • Gulp
MySQL • Numpy • Pandas • Scikit-learn
AngularJS • NodeJS • Bower • Excel

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
Information Retrieval & Extraction
Artificial Intelligence
Internet of Things

WORK EXPERIENCE & PROJECTS

MICROSOFT | DATA SCIENTIST INTERN

May 2020 - Aug 2020 | Bellevue, WA

- Evaluated various model architectures to improve the Ad Click predictions for Bing's Native Ads Team by incorporating event time into sequential models.
- Achieved a 8% AUC boost on the Ads Re-ranking task.
- Secured 2nd place in Microsoft's C&AI Hack for Good Hackathon.

SAMSUNG | SENIOR SOFTWARE ENGINEER (DATA INTELLIGENCE TEAM)

Jun 2017 - Jul 2019 | Bengaluru, India

- Developed scalable ML algorithms and production pipelines to predict smartphone user's 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 Patents, 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 on performing time series analysis

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.

TEMPORAL PREDICTION MODELS | LSI LAB, IIIT

Achieved 96% R^2 score for time series prediction of environmental variable. Used techniques like RNN (LSTM, GRU), ARIMA, SARIMAX models for forecasting with the addition of seasonal and trend-based features.

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

Jul 2018 Spot Award Best Employee Award (Data Intelligence team)