

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

SKILLS

PROGRAMMING LANGUAGES

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

TECHNOLOGY

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

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

Natural Language Processing
Computer Vision
Data Science Fundamentals
Analysis of Algorithms

UNDERGRADUATE

Machine Learning
Complexity & Advanced Algorithm
Operating Systems (OS)
Database Systems
Data Structures
Internet of Things
Artificial Intelligence

WORK EXPERIENCE & PROJECTS

SAMSUNG | SENIOR SOFTWARE ENGINEER (DATA INTELLIGENCE TEAM)

Jun 2017 - Jul 2019 | Bengaluru, India

- 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), 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 managed mobile device.
- Architected real-time processing using Apache Kafka and Spark Streaming to extract relevant information about meetings, using Outlook's REST API's.

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.

SEMANTIC ANNOTATION OF RESEARCH PAPERS | SIEL LAB, IIIT

Annotate any given research paper, based on ACM's classification hierarchy, using document embeddings to achieve 97 % classification accuracy.

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)

COMPILER FOR DECAF LANGUAGE | IIIT

- Developed a compiler front-end for Decaf Language (subset of C++)
- Modelled the lexical and syntax analyzer (parser) using Flex/Bison.
- Abstract Syntax Tree Generation for the parsed program.
- Configured the compiler to generate LLVM IR for source program, using LLVM module and IR Builder Objects.

WIKIPEDIA SEARCH ENGINE | IIIT

Programmed a highly efficient indexer and retriever for 56GB of Wikipedia data, reranking the webpages to increase P@K, R@K.

ACHIEVEMENTS

Apr 2019 Patent

Jul 2018 Spot Award

Apr 2018 Patent

Feb 2016 Pioneer Makerthon

Oct 2015 Gitex Student Lab

Jun 2015 IoTX Hackathon

Feb 2015 Game On

Machine Learning on Blockchain

Best Employee Award (Data Intelligence team)

Secure Device personalization using blockchain

Finalist for Android app named Bounty Hunter

Top 10 Rank, showcased at GITEX Tech Week

IoT project for Search and Rescue Missions

First Place for Voice-based Web Game