

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

Tensorflow • Keras • FastText • AWS •

HTML5 • CSS3 • Javascript • Django •

PHP • Spark • Android • Docker • Perl

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.

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

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 addition of any services.
- 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 1 Patent, primarily based on the work.

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.
- Performed real-time processing using Apache Kafka and Spark Streaming to extract relevant information of meetings.

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

forecast 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 tree, using document embeddings, with a classification accuracy of 97%.

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.
- Construction of the Abstract Syntax Tree 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 & retriever for 56GB of Wikipedia

data, reranking the webpages to increase P@K, R@K.

ACHIEVEMENTS

Jul 2018 Spot Award

Apr 2018 Patent

Feb 2016 Pioneer Makerthon

Jun 2015 Gitex Student Lab

June 2015 IoTX Hackathon

Feb 2015 Game On

Best Employee Award [Data Intelligence team]

Secure Device personalization using blockchain.

Finalist for Android app named Bounty Hunter

Top 10 Finalist (IoT Project)

IoT project for Search and Rescue Missions

First Place for Voice-based Web Game