

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

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

- Built a proximity based, cross-platform Smart TV solution
- Extended support of the project to work on 5 different Smart TV platform
- Chosen to work on Borathon (Annual Hackathon) winning project

TEMPORAL PREDICTION MODELS | LSI LAB, IIIT

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

SEMANTIC ANNOTATION OF RESEARCH PAPERS | SIEL LAB, IIIT

Annotate any given research paper, based on ACM's classification tree with a classification accuracy of 97%

STOCK PRICE TREND PREDICTION | IIIT

Forecast Stock returns based on past returns & numerical news indicators with the help of a variety of supervised ML techniques. (400+ stars)

COMPILER FOR DECAF LANGUAGE | IIIT

- Developed a compiler front-end for Decaf Language, which is a subset of C++, to LLVM IR.
- Developed the lexical and syntax analyzer (parser) using Flex/Bison.
- Generated the Abstract Syntax Tree for the parsed program.
- Usage of LLVM IR for source program, using .

WIKIPEDIA SEARCH ENGINE | IIIT

A highly efficient indexer & retriever for Wikipedia dump of 56 GB, ordering Wikipedia pages related to the query.

ACHIEVEMENTS

SPOT AWARD | SAMSUNG R&D, BENGALURU

Jul, 2018 | Bengaluru, India

Best Employee Award for Data Intelligence team.

PATENT | PS: 201841015708

April, 2018 | Bengaluru, India

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

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.