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

FAMILIAR
Python • C • C++ • Spark • DynamoDB
HTML5 • CSS3 • Javascript • AngularJS

COMPETENT
Java • Ruby • Scala • Django • AWS
Kafka • PHP • Docker • Gulp • Android
Tensorflow • Keras • PyTorch • MySQL

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
Analysis of Algorithms
Data Science Fundamentals
Natural Language Processing
Computer Vision

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

WORK EXPERIENCE & PROJECTS

SAMSUNG | Senior Software Engineer (Data Intelligence Team)
Jun 2017 - Jul 2019 | Bengaluru, India
- Developed scalable ML algorithms & production pipelines to predict smartphone users' demographics & interests based on app usage, geolocation, browsing behavior & music/video usage.
- 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 (<1MB RAM).
- Improved the classification accuracy by 7% & remodeled the data pipeline.
- Published 3 Research Papers & 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 for Smart TV based on the proximity of the user carrying managed mobile devices.
- Created a web-based application using AngularJS, Bower & Gulp, to run smoothly across 5 Smart TV OS including Android, Tizen, FireTV & WebOS.
- Architected real-time processing using Apache Kafka and Spark Streaming to extract relevant information about meetings, using Outlook's REST APIs.

CONNAIZEN | Mobile Developer Intern
June 2015 – Aug 2015 | Hyderabad, India
- Creation of Net-banking based Android Application, along with personalisation according to the user's location and interest.
- Realization of User Experience Design along with integration with the APIs of Google+, Google Maps, Facebook, etc.

IMAGINATE SOFTWARE LABS | Software Developer Intern
Dec 2014 – Feb 2015 | Hyderabad, India
- Built a web app HelloPsych for a complete online video consultation with a Psychiatrist from appointment scheduling to video consultation to final prescription.
- Got a chance to present HelloPsych at 67th Annual National Conference of the Indian Psychiatric Society (ANCIPS 2015), Hyderabad

COMPILER FOR DECAF LANGUAGE | IIIT
- Developed the compiler front-end & back-end for subset of C++ syntax.
- 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 Precision@K, Recall@K.

ACHIEVEMENTS

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