

Sharvil Katariya

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EDUCATION

STONY BROOK UNIVERSITY MS IN COMPUTER SCIENCE

Grad. 2020 | Stony Brook, NY
Cum. GPA: 3.89/4.0
Teaching Assistant: Data Structures, NLP

IIIT HYDERABAD

BTECH IN COMPUTER SCIENCE
Grad. 2017 | Hyderabad, India
Teaching Assistant: Software Engineering

SKILLS

Python • Java • C++ • Kotlin • Scala
Spark • Kafka • Android • Django
MySQL • DynamoDB • MongoDB
HTML5 • CSS3 • Javascript • PHP
AngularJS • React • AWS • Azure
Tensorflow • Keras • PyTorch

COURSEWORK

Database Systems
Analysis of Algorithms
Machine Learning (ML)
Natural Language Processing (NLP)
Computer Vision (CV)
Data Structures
Complexity & Advanced Algorithm
Operating Systems (OS)
Structured Systems Analysis & Design
Computer Networks
Cloud Computing
Artificial Intelligence (AI)
Information Retrieval & Extraction
Internet of Things (IOT)

PUBLICATIONS

INDICON CONFERENCE

A Privacy Preserving Approach to
Generate Personalized
Recommendation Based on Short
Text Classification

ICACCI CONFERENCE

Machine Learning for Secure
Device Personalization Using
Blockchain.

ICOST CONFERENCE

A Personalized Health
Recommendation System Based on
Smartphone Calendar Events.

WORK EXPERIENCE & PROJECTS

HUSPY | SOFTWARE DEVELOPMENT ENGINEER (BACKEND TEAM)

May 2023 - Present | Dubai, UAE
Executed the successful launch of Agent Referrals feature for Huspy Agents App.

MICROSOFT | SOFTWARE DEVELOPMENT ENGINEER (BING ADS)

March 2021 - Apr 2023 | Bellevue, WA

- Creation of interest-based user segments constituting to 40% User Growth and Click/Send ratio of more than 0.5 using Azure Infra for INTL Markets.
- Designed Privacy-preserving mechanism to incorporate feedback from all Microsoft services. Active member of ideation meetings, contributing to 3+ ideas based on the team's work.

MICROSOFT | DATA SCIENTIST INTERN (BING NATIVE ADS)

May 2020 - Aug 2020 | Bellevue, WA

- Evaluated various model architectures to improve the Ad Click predictions by incorporating event time into sequential models.
- Secured 2nd place in Microsoft's C&AI Hack for Good hackathon for building a Microsoft Team's Tab Application to provide an interactive virtual class environment leveraging Azure's Cognitive Services and Bing APIs.

SAMSUNG | SENIOR SOFTWARE ENGINEER (DATA INTELLIGENCE)

Jun 2017 - Jul 2019 | Bengaluru, India

- Built Android app to run lightweight short text classification models (<1MB RAM) on Samsung devices. Implemented JNI layer to run native code on devices to run 20% faster.
- Spearheaded building a Generic Recommendation Platform, with a plug & play architecture for the addition of any new services to generate recommendations right off the bat.
- Published 3 Research Papers and filed 2 Patents and mentored interns.

VMWARE | SOFTWARE ENGINEERING INTERN (AIRWATCH TEAM)

May 2016 - Jul 2016 | Bengaluru, India

- Developed a prototype to integrate Mobile Device Management agent across multiple Smart TV platforms like Android, Tizen, FireTV & WebOS.
- Created a web-based application using AngularJS, Node.js, Bower & Gulp
- Architected real-time processing using Apache Kafka and Spark Streaming to extract relevant information about meetings, using Outlook's REST APIs.

COMPILER FOR SUBSET OF C++ SYNTAX

- Modelled the lexical & syntax analyzer (parser) using Flex/Bison (Frontend)
- Abstract Syntax Tree Generation for the parsed program (Backend)
- Configured the compiler to generate LLVM IR for source program, using LLVM module and IR Builder Objects.

STOCK PRICE TREND PREDICTION

Forecast stock returns on the basis of past returns & company sentiments from news, social media by applying various supervised ML techniques (1.1K+ stars)

ACHIEVEMENTS

July 2020 Third Place MTA Back on Track Hackathon
Jul 2018 Spot Award Best Employee Award (Data Intelligence team)