

**Sashank Sridhar**  
sashank.ssridhar@gmail.com  
<https://www.linkedin.com/in/sashank-sridhar/>

+91 9791015488

## WORK EXPERIENCE

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|---|---|--------------------------------|
| <b>Technology Analyst</b>   | <b>Citicorp Services Pvt. Ltd., Chennai, India</b>                    | <b>August 2020 - Present</b>   |
| Platform Services Developer – Rates Risk – Foreign Exchange and Local Markets (FXLM)  |   |                                |
| <ul style="list-style-type: none"><li>• Created End of Day notifications for batches to include if it is a holiday or not at each batch.</li><li>• Developed a service to identify trades with high differences in feeds and thereby helped eliminate the number of errors as well as missing books.</li><li>• Created new batches of trades in two new environments.</li><li>• Helped in developing a Spring Boot based downloader for trade data and helped package it into a plugin.</li></ul> |   |                                |
| <b>Reviewer</b>   | <b>IEEE INTERCON 2021, San Miguel, Peru</b>                           | <b>April 2021 – Present</b>    |
| <ul style="list-style-type: none"><li>• Member of Program Committee and Reviewer at IEEE INTERCON 2021 conducted by Universidad Nacional Federico Villarreal.</li></ul>   |   |                                |
| <b>Reviewer</b>   | <b>IEEE IEMTRONICS 2021, Toronto, Canada</b>                          | <b>March 2021 – April 2021</b> |
| <ul style="list-style-type: none"><li>• Member of Technical Program Committee and Reviewer at IEEE IEMTRONICS 2021.</li></ul>   |   |                                |
| <b>Summer Technology Analyst</b>  | <b>Citicorp Services Pvt. Ltd., Chennai, India</b>                    | <b>May 2019 – July 2019</b>    |
| Rates Risk – Foreign Exchange and Local Markets (FXLM)  |   |                                |
| <ul style="list-style-type: none"><li>• Created a Proof of Concept of a Time Series data store using MongoDB for Market data.</li><li>• Evaluated different schemas and created an embedded schema with <math>O(n \log n)</math> time taken for access.</li><li>• Developed a user defined key based schema for storing the data.</li><li>• Designed Rest APIs in Spring Boot for the various CRUD operations.</li></ul>  |   |                                |
| <b>Summer Research Internship</b>   | <b>College of Engineering Guindy, Anna University, Chennai, India</b> | <b>April 2018 – May 2018</b>   |
| Augmented Reality Setup for Mobile Phones in Real Time  |   |                                |
| <ul style="list-style-type: none"><li>• Implemented an AR application with User Defined Targets in Vuforia.</li><li>• Object detection from real time was carried out using Google Reverse Image Search API</li><li>• The labels that were identified was displayed in the user screen as Augmented text on the object.</li></ul>   |   |                                |

## EDUCATION

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| <b>Anna University, Chennai India</b>  | <b>College of Engineering Guindy</b> | <b>April 2016 – May 2020</b> |
| <ul style="list-style-type: none"><li>• Bachelor of Engineering (B.E.) in Computer Science and Engineering</li><li>• Graduated First Class with Distinction, <b>CGPA: 9.56</b></li></ul> |                                      |                              |

## HONORS AND AWARDS

- **Reviewer's Choice Best Paper Award:** For the paper : News Categorization Using Hybrid BiLSTM-Ann Model With Feature Engineering at **IEEE CCWC 2020** held at University of Nevada, Las Vegas, **USA**; Evaluated the effect of adding hypernyms and hyponyms in News classification using a hybrid neural network.
- **Best Paper Award:** For the paper : Detection And Prognosis Evaluation Of Diabetic Retinopathy Using Ensemble Deep Convolutional Neural Networks at **IEEE IES 2020** held at Politeknik Elektronika Negeri Surabaya (Pens), Surabaya, **Indonesia**; Created a model of ensemble residual networks in which each individual ResNet detects a particular level of progression of DR.

## TECHNICAL EXPERIENCE

- Projects and Publications :** Total of 17 publications in IEEE Conferences
- Blockchain :** Decentralized Stock Exchange Implementation using Ethereum
- Deep Learning :** Detection of Market Manipulation using Ensemble Neural Networks
- Natural Language Processing with Deep Learning**
- Fake News Detection and Analysis using Multitask Learning with BiLSTM CapsNet model
  - News Categorization using Hybrid BiLSTM-ANN Model with Feature Engineering
  - A Compiler-based Approach for Natural Language to Code Conversion

- Twitter Social Networking Graph using Hypernym based Semantic Similarity Detection
- Sentiment Analysis Using Ensemble-Hybrid Model with Hypernym Based Feature Engineering

#### **Software Defined Networks :**

- Dynamic Routing Framework Proposal for SDWAN using Topology-based Multitask Learning
- SDPredictNet – A Topology based SDN Neural Routing Framework with Traffic Prediction Analysis

**IoT:** Cross-Platform Remote Desktop Sharing with IP Tunneling

**Augmented Reality:** Instant Tracking-Based Approach for Interior Décor Planning with Markerless AR

#### **TECHNICAL PROFICIENCY**

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- **Languages :** Java, Python, C#, C, C++, Solidity
- **Technologies :** Microservices: Spring Boot; Queuing Services: RabbitMQ, Apache Kafka; Unity3D: Vuforia; Blockchain: Ethereum;
- **Machine Learning:** Sklearn
- **Natural Language Processing:** nltk
- **Deep Learning:** Keras, Tensorflow
- **Computer Vision:** OpenCV
- **NoSQL:** MongoDB
- **SQL:** Oracle, SQLServer