Sashank **Sridhar**

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Education

International Institute of Information Technology, Hyderabad (IIIT-H) *Hyderabad, India*
M.S. BY RESEARCH IN COMPUTER SCIENCE AND ENGINEERING *Jan. 2022 - Present*
- Applied Research Fellow - Mobility Team - Guided by Prof. C. V. Jawahar and Prof. Ravi Kiran S.

College of Engineering Guindy (CEG), Anna University *Chennai, India*
B.E. IN COMPUTER SCIENCE AND ENGINEERING *Apr. 2016 - May. 2020*
- First Class with Distinction, CGPA 9.56.

Work Experience

Citicorp Services Pvt. Ltd. *Chennai, India*
TECH PROGRAM APP DEV 1 - PAYMENTS AND RECEIVABLES, TREASURY AND TRADE SOLUTIONS (TTS) AND RATES RISK, FOREIGN
EXCHANGE AND LOCAL MARKETS (FXLM) *Jul. 2021 – Dec. 2021*
- POCs for Spring Kafka, Spring JMS and Spring Cloud Config with Git and JDBC
- Created a generic database interface for both SQL and NoSQL databases.
- *Responsibility:* Mentor for the Summer Internship batch of 2021.

Citicorp Services Pvt. Ltd. *Chennai, India*
TECHNOLOGY ANALYST - RATES RISK – FOREIGN EXCHANGE AND LOCAL MARKETS (FXLM) *Aug. 2020 –Jun. 2021*
- **CITI Copper Gratitude Award**: For Delivering Results in the project Reval Implementation.
- Developed a spring boot application to perform reconciliation of trade data and to highlight anomalies.

College of Engineering, Guindy, Anna University *Chennai, India*
INTERN *May 2020 – Jun. 2020*
- Calculated the relative similarity between the gradient class activation maps of various lung diseases determined using each disease's corresponding ResNet model.

Citicorp Services India Pvt. Ltd. *Chennai, India*
SUMMER TECHNOLOGY ANALYST - RATES RISK – FOREIGN EXCHANGE AND LOCAL MARKETS (FXLM). *May 2019 – Jul. 2019*
- Created a Proof of Concept of a Time Series data store using MongoDB for Market data.
- Evaluated different schemas and created an embedded schema with $O(nlogn)$ time taken for access.

Honors & Awards

2022	**Best Presenter Award**, IEEE 12th Annual Computing and Communication Workshop and Conference (CCWC), DOI: 10.1109/CCWC54503.2022.9720747	*University of Nevada, USA*
2022	**Best Presenter Award**, IEEE 12th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), DOI: 10.1109/IEMCON53756.2021.9623219	*University of British Columbia, Canada*
2021	**Excellent Paper Award**, International Conference on Information and Communication Technology Convergence (ICTC), DOI: 10.1109/ICTC52510.2021.9621023	*KICS, South Korea*
2021	**Bronze Best Paper Award**, Joint 10th International Conference on Informatics, Electronics and Vision (ICIEV) and 5th International Conference on Imaging, Vision and Pattern Recognition (icIVPR), DOI: 10.1109/ICIEVicIVPR52578.2021.9564198	*CNSER, Japan*
2021	**Best Paper Award**, 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), DOI: 10.1109/ECAI52376.2021.9515040	*University of Pitesti, Romania*
2021	**Reviewer's Choice Best Paper Award**, IEEE 11th Annual Computing and Communication Workshop and Conference (CCWC), DOI: 10.1109/CCWC51732.2021.9376082	*University of Nevada, USA*
2020	**Best Paper Award**, International Electronics Symposium (IES), DOI: 10.1109/IES50839.2020.9231789	*PENS, Indonesia*

Publications

DEEP LEARNING

2021	**IEEE ICCTA**, Random Vector Functional Link Networks for Load Forecasting Using Renewable Energy Generation, (In Publication)	*Cairo, Egypt*

2021	**IEEE NCA,** DarkNet Traffic Classification Pipeline with Feature Selection and Conditional GAN-based Class Balancing, DOI: 10.1109/NCA53618.2021.9685743	*Boston, USA*
2021	**IEEE CCE,** Effect of Rate of Change of Stock Prices with News Sentiment Analysis, DOI: 10.1109/CCE53527.2021.9633111	*Mexico City, Mexico*
2021	**IEEE I3CAT,** ELM-AD: Extreme Learning Machine Framework for Price and Volume Anomaly Detection in Stock Markets, DOI: 10.1109/I3CAT53310.2021.9629409	*Ipswich, UK*
2021	**IEEE CICN,** Handling Data Imbalance in Predictive Maintenance for Machines using SMOTE-based Oversampling, DOI: 10.1109/CICN51697.2021.9574668	*Lima, Peru*
2021	**IEEE INISTA,** Analysis and Prediction of Bitcoin Price using Bernoulli RBM-based Deep Belief Networks, DOI: 10.1109/INISTA52262.2021.9548422	*Kocaeli, Turkey*
2021	**IEEE HSI,** Multi-Head Self-Attention Transformer for Dogecoin Price Prediction, DOI: 10.1109/HSI52170.2021.9538640	*Gdańsk, Poland*
2021	**IEEE ECAI,** Deep-Neural Genetic Algorithm Optimization Analysis for Forgery Detection of Banknotes, DOI: 10.1109/ECAI52376.2021.9515040	*Pitesti, Romania*
2021	**IEEE ICCCE,** Extending Deep Neural Categorisation Models for Recommendations by Applying Gradient Based Learning, DOI: 10.1109/ICCCE50029.2021.9467135	*Kuala Lumpur, Malaysia*
2020	**IEEE ISCV,** Detection of Market Manipulation using Ensemble Neural Networks, DOI: 10.1109/ISCV49265.2020.9204330	*Fez, Morocco*
2020	**IEEE UEMCON,** Stock Price Prediction using Bi-Directional LSTM based Sequence to Sequence Modeling and Multitask Learning, DOI: 10.1109/UEMCON51285.2020.9298066	*New York, USA*

Natural Language Processing

2022	**IEEE CCWC,** Interrelating N-gram based Protein Sequences using LSTMs with Parallel Capsule Routing, DOI: 10.1109/CCWC54503.2022.9720747	*Las Vegas, USA*
2021	**IEEE ICIEV-IcIVPR,** Content Based News Recommendation Engine using Hybrid BiLSTM-ANN Feature Modelling, DOI: 10.1109/ICIEVicIVPR52578.2021.9564198	*Kitakyushu, Japan*
2021	**IEEE FEDCSIS,** Analysis of the Effect of News Sentiment on Stock Market Prices through Event Embedding, DOI: 10.15439/2021F79	*Sofia, Bulgaria*
2021	**IEEE CCWC,** News Categorization using Hybrid BiLSTM-ANN Model with Feature Engineering, DOI: 10.1109/CCWC51732.2021.9376082	*Las Vegas, USA*
2021	**IEEE CONFLUENCE,** Fake News Detection and Analysis using Multitask Learning with BiLSTM CapsNet model, DOI: 10.1109/Confluence51648.2021.9377080	*Noida, India*
2020	**IEEE IC2IE,** A Compiler-based Approach for Natural Language to Code Conversion, DOI: 10.1109/IC2IE50715.2020.9274674	*Yogyakarta, Indonesia*
2020	**IEEE ICOSEC,** Twitter Social Networking Graph using Hypernym based Semantic Similarity Detection, DOI: 10.1109/ICOSEC49089.2020.9215279	*Trichy, India*
2020	**IEEE ICOSEC,** Twitter Social Networking Graph using Hypernym based Semantic Similarity Detection, DOI: 10.1109/ICOSEC49089.2020.9215279	*Trichy, India*
2020	**IEEE FORTEI-ICEE,** Sentiment Analysis Using Ensemble-Hybrid Model with Hypernym Based Feature Engineering, DOI: 10.1109/FORTEI-ICEE50915.2020.9249945	*Bandung, Indonesia*

Computer Vision

2021	**IEEE UEMCON,** SqueezeCapsNet – Transfer Learning-Based ASL Interpretation Using SqueezeNet With Multi-Lane Capsules, DOI: 10.1109/UEMCON53757.2021.9666590	*New York, USA*
2021	**IEEE IEMCON,** Intelligent Vision-based Malware Classification using Quantised ResNets, DOI: 10.1109/IEMCON53756.2021.9623219	*Vancouver, Canada*
2021	**IEEE ICIEM,** Multi-Lane Capsule Network Architecture for Detection of COVID-19, DOI: 10.1109/ICIEM51511.2021.9445363	*London, UK*
2021	**IEEE IEMTRONICS,** COVID-19 Identification in CLAHE Enhanced CT-Scans with Class Imbalance using Ensembled ResNets, DOI: 10.1109/IEMTRONICS52119.2021.9422556	*Toronto, Canada*
2020	**IEEE IES,** Detection and Prognosis Evaluation of Diabetic Retinopathy using Ensemble Deep Convolutional Neural Networks, DOI: 10.1109/IES50839.2020.9231789	*Surabaya, Indonesia*
2020	**IEEE ICDS,** A Study on Co-occurrence of various Lung Diseases and COVID-19 by observing Chest X-Ray Similarity using Deep Convolutional Neural Networks, DOI: 10.1109/ICDS50568.2020.9268711	*Fez, Morocco*
2020	**IEEE ICDS,** Detection and State Analysis of Drowsiness using Multitask Learning with Neural Networks, DOI: 10.1109/ICDS50568.2020.9268740	*Fez, Morocco*

Blockchain

| 2021 | **IEEE AIIoT,** Analysis of Smart Contract Abstraction in Decentralized Blockchain Based Stock Exchange, DOI: 10.1109/AIIoT52608.2021.9454189 | *Seattle, USA* |
| 2020 | **IEEE ISITIA,** Decentralized Stock Exchange Implementation using Ethereum, DOI: 10.1109/ISITIA49792.2020.9163706 | *Surabaya, Indonesia* |

SOFTWARE DEFINED NETWORKS

2021	**IEEE ICTC,** Route Prediction in Software Defined Networks Using Ensemble Extreme Learning Machines, DOI: 10.1109/ICTC52510.2021.9621023	*Jeju Island, South Korea*
2021	**IEEE CCWC,** SDPredictNet – A Topology based SDN Neural Routing Framework with Traffic Prediction Analysis, DOI: 10.1109/CCWC51732.2021.9376123	*Las Vegas, USA*
2021	**IEEE IEMTRONICS,** SDPredictNet – A Topology based SDN Neural Routing Framework with Traffic Prediction Analysis, DOI: 10.1109/IEMTRONICS52119.2021.9422536	*Toronto, Canada*
2020	**IEEE ICRAIE,** Dynamic Routing Framework Proposal for SDWAN using Topology-based Multitask Learning, DOI: 10.1109/ICRAIE51050.2020.9358315	*Jaipur, India*

IoT

| 2020 | **IEEE ICCCNT,** Cross-Platform Remote Desktop Sharing with IP Tunneling, DOI: 10.1109/ICCCNT49239.2020.9225437 | *Kharagpur, India* |

AUGMENTED REALITY

| 2020 | **IEEE ZINC,** Instant Tracking-Based Approach for Interior Décor Planning with Markerless AR, DOI: 10.1109/ZINC50678.2020.9161789 | *Novi Sad, Serbia* |

Program Committees

Present	**Reviewer,** IEEE Open Journal of the Communications Society	*IEEE*
Present	**Reviewer,** Patterns - Journal by Cell Press Publications	*Cell Press*
2022	**Program Committee Member,** INTELLI, IARIA XPS Press	*Venice, Italy*
2022	**Technical Program Committee Member,** IEEE IEMTRONICS	*Toronto, Canada*
2021	**Reviewer,** IEEE ICRAIE	*Kedah, Malaysia*
2021	**Reviewer,** ICoBE	*Perlis, Malaysia*
2021	**Technical Reviewer,** IEEE AiDAS	*Ipoh, Malaysia*
2021	**Reviewer,** IEEE MysuruCon	*Hassan, India*
2021	**Reviewer,** IEEE INTERCON	*San Miguel, Peru*
2021	**Technical Program Committee Member,** IEEE IEMTRONICS	*Toronto, Canada*

Skills

Languages	Java, Python, C#, C, C++, Solidity
Back-end	**Microservices**: Spring; **Queuing**: RabbitMQ, Apache Kafka; **Unity3D**: Vuforia; **Blockchain**: Ethereum;
Deep Learning	sklearn, Keras, Tensorflow
Databases	MongoDB, SQL Server, Oracle