Sharad Shriram

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Education

Delft University of Technology — Delft, the Netherlands
Master of Science in Computer Science — *Sept. 2017 – Aug. 2019*

Amrita Vishwa Vidyapeetham (Amrita Univeristy) — Coimbatore, India
Bachelor of Technology in Computer Science and Engineering — *Aug. 2012 – May. 2016*

Experience

Delft University of Technology — Delft, the Netherlands
Master Thesis Student — *Sep 2018 - Aug. 2019*

- **A Human-Machine Approach to Preserve Privacy in Image Analysis Crowdsourcing Tasks**: Designed a hybrid human-AI workflow to detect and obfuscate private information in images used for image annotation crowdsourcing tasks.

Delft University of Technology — Delft, the Netherlands
Teaching Assistant — *Sep 2018 - Jan 2019*

- **Web Science and Engineering**: Responsible for conducting office hours, coming up with grading criteria and grading assignments.
- **Digital Skills**: Lab assistant, responsible for supporting first year bachelor students to learn programming in Python and grading lab assignments and exam.

IBM, Netherlands BV — Amsterdam, the Netherlands
Extreme Blue Summer Internship — *Jun 2018 - Sep 2018*

- **Lead Developer**: Responsible for the overall design and development of a prototype demonstrating an innovative application of Aritificial Intelligence for the challenge given a leading MNC in the food and beverage sector.
  Received the **IBM Benelux Excellence Award** and the *Runner up* for the **project with the best Innovation Impact** at the IBM Extreme Blue European Expo

Amrita Vishwa Vidyapeetham — Coimbatore, India
Undergraduate Student Research Associate — *Jun 2015 - Dec 2016*

- **Finding Anomalies Quickly!**: The project presents the implementation of an algorithm that searches large dumps of packet captures for anomalies. The algorithm is based on the Locality Sensitive Hashing concept, implemented using Map-Reduce and tested on Hadoop and Apache Spark. This project was done under the IBM Shared University Research funding for the "Malware Analysis and Detection using Sand boxing and Machine Learning" project.

Amrita Vishwa Vidyapeetham — Coimbatore, India
Undergraduate Student Researcher — *Sep 2014 - May 2016*

- **A Smart Bus for a Smart City**: A real-time, networked application where smart phones and buses form a network of things. Commuters can use the smart phone application to locate buses to their destination in real-time, with information provided directly from the buses indicating the current location and ETA to the next bus stop. Administrators can monitor buses in real-time and manage the fleet for better operation. This was also my bachelor's degree project.
- **Early Warning System for Unmanned Rail-Road Crossings**: A network of sensor nodes placed along the railway tracks relays information of an approaching train to the base hardware placed at the rail-road crossing. The base hardware alerts the traffic with audio and visual warnings.
- **Scalable Energy Consumption Monitor**: A network of sensor nodes that constantly measure the temperature, humidity and energy consumption at server racks and logs them periodically. Based on the logged data, a learning algorithm is used to compute future energy requirement and cost involved.

Selected Publications

Google Scholar: h-Index: 3

Sharad, S., P. Bagavathi Sivakumar, and V. Anantha Narayanan. "The smart bus for a smart cityA real-time implementation." Advanced Networks and Telecommunications Systems (ANTS), 2016 IEEE International Conference on. IEEE, 2016.

Sharad, S., P. Bagavathi Sivakumar, and V. Ananthanarayanan. "An automated system to mitigate loss of life at unmanned level crossings." Procedia computer science 92 (2016): 404-409.

Sharad, S., P. Bagavathi Sivakumar, and V. Anantha Narayanan. "A novel IoT-based energy management system for large scale data centers." Proceedings of the 2015 ACM Sixth International Conference on Future Energy Systems. ACM, 2015.

Recent Projects

MyCI: A chatbot built on Telegram for campus information retrieval using participatory crowdsourcing.

SatVis - A Visualization Project: Data Visualization of satellite data using D3.js to locate, analyze the satellites based on their purpose and users over time.

Tweets Power Transport: research proposal that explores the possibility of using tweets from commuters to develop a real-time, commuter demand based fleet management system on bus routes.

Share a byte over a hand-shake: a prototype to explore data communication using human hand-shake.