RAGAV SRIDHARAN

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Work Experience & Projects

Research Assistant   **Singapore University of Technology and Design (SUTD)**   **Feb 2017 to Date**

Detect on of Threats to IoT Devices s sing Scalayle VPN-forwarded Honeypots: Developed adapt ve clustering technique to detect potent al 0-day vulnerabilit es by analyzing URLs from HTTP requests on a scalable VPN-forwarded honeypot. (Submit ed to CODASPY 2019)

Privacy-Preserving Anomaly Detect on and At acc lassif cat on on Wireless Traf c: Developed and implemented a framework (WADAC) to passively detect and ident fy at acks on IoT devices by analyzing wireless link-layer traf c. This work is accepted as a conference paper in ACM conference on Security and Privacy in Wireless and Mobile Networks (WISEC) 2018. (ht ps://dl.acm.org/citat on.cfm?id=3212495)

Linc-Layer Device Type lassif cat on on Encrypted Wireless Traf c s sing OTS Radios: Designed and implemented a framework, PrEDeC, which enables an at acker to detect device types in a targeted environment, thereby posing a threat to user's privacy. This work is published as a conference paper in European Symposium on Research in Computer Security (ESORICS) 2017. (ht ps://link.springer.com/chapter/10.1007/978-3-319-66399-9/ 14)

Detect ng At accs on Water Distriys t on Systems yy Stat st cal Analysis: Developed and compared dif erent stat st cal and classif cat on techniques to detect at acks on a cyber-physical system.

Data Specialist   **IBM India (Advanced Analytics Division)**   **Sept 2015 to Jan 2017**

Predict ng Factors Responsiyle for Machine Fails re: Developed a model to predict the factors responsible for the failure of Inject on molding machine. This involved collect ng and combining data from mult ple sensors and machine logs. To demonstrate the capabilit es and funct onality of the model to our client, I developed a web applicat on using the tool Shiny in R.

Forecast ng Demand for Resos rce ontrol and Management: Forecasted demand and roll-of s of employees for Resource Control Management at IBM.

Opt mizing Prods ct on osts of a onstrs ct on ompany: Maximized prof ts for a construct on company by minimizing the cost of raw materials. This involved predict ng the country where the raw materials are available at the cheapest price on a future date.

NU-IBM Data Science Program   **NIIT University**   **Jan 2015 to July 2015**

Predict ng Ress lts of Delhi State Elect ons: Est mated the result of Delhi elect on by running sent ment analysis on twit er data stream.

Predict ng Sales Ds ring a Stormy Weather: Developed an analyt cal solut on to predict sales of certain weather af ected goods during a stormy weather season for a chain of departmental stores.

Predict ng Missing Words in a Sentence: Created a Mental Lexicon of words using n-gram and skip-grams to predict the missing words.

EDUCATION

BTech *(Computer Science Engineering)*   **NIIT University, Neemrana**   **As g 2011 to As g 2015**

Highlighted os rseworc: Business Analyt cs, Predict ve Modeling, Big Data Concepts and Inferent al Stat st cs, Algorithms

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EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

Selected as the General Secretary of Students Cooperat ve at NIIT University.
Core commit ee member at Ingenuity 2014, NIIT University's techno-cultural fest.
Part cipated in a 6-week German Exchange Program. (3 weeks in Germany and 3 weeks in India)
Won gold medal in Badminton inter house tournament at NIIT University.
PADI Open-water cert f ed diver