Harini Suresh

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Experience

Technical Solutions Engineer   **Arista Networks**   **Aug 2020 - Present**
- Providing active troubleshooting on the issues encountered in their Data-Center environment on a daily basis on defined RFCs and IEEE standard protocols (BGP, OSPF, EVPN, etc.).As a part of my job, it requires me to actively work with Development/Software teams on escalations thereby enhancing my knowledge in the field of hardware platform and Arista EOS.

Student Intern   **Arista Networks**   **Jan 2019 - Jun 2019**
- Mentee at Arista Industry Readiness Program 2019: Gained hands-on exposure to several Data Center standard networking protocols and design mechanisms.

Software Engineer Intern, R&D   **FireEye Inc.**   **May 2018 - Jul 2018**
- Built OS Template Automation System to reduce manual labour integrated with a Cybersecurity Software Model focussing on the creation of base OS images from release versions, automate the update of previously created template images and configuration of the OS images.

Education

Amrita Vishwa Vidyapeetham   **June 2015-Aug 2019**
- B.Tech in Computer Science and Engineering   **CGPA**: 9.41/10
- **Activities:** National Service Scheme Candidate, Event Manager Anokha 2K18, CSE Batch Representative.
- **Publications**: **A Survey of Deep Convolutional Neural Network Applications in Image Processing**, "International Journal of Pure and Applied Mathematics, Volume 118, Issue 7, p.185-189 (2018); **Hand region extraction by saliency-based colour components**, "International Journal of Recent Technology and Engineering, Blue Eyes Intelligence Engineering and Sciences Publication", Volume 8, Number 1, p.227-230 (2019)

Projects

Data Expert   **DataKind Corps**   **Nov 2020-Present**
In collaboration with Asian Natural Conservation Foundation to classify events in camera trap images which will help reduce or mitigate incidents of human-wildlife conflict using Computer Vision.

Mentor   **Omdena**   **Oct 2020-Present**
In partnership with The World Resources Institute, Code for Africa, and collaborators from Stanford University we hope to leverage AI to map land ownership to boost Kenya's efforts to restore degraded land in an equitable way using NLP where we are working on creating a knowledge graph of land ownership in Kenya, generating a list of organizations in the form of a 'Watch List' to identify if there is any corruption with land ownership.

Project Manager   **Omdena**   **Oct 2020-Present**
The project partner International Social Service (ISS) is an international NGO founded in 1924, helping more than 75K families per year across the globe. We are building a recommender system which helps to improve case management of social workers in child protection, migration, and welfare using NLP.

Project Lead   **Girlscript Foundation**   **Aug 2020-Present**
Working on a research project to propose a team-centric stability analysis strategy to address the issue of the selection of the appropriate number of topics for a given corpus in Topic Modelling.

Lead ML Engineer   **Omdena**   **Jul 2020- Sep 2020**
Increasing Solar Energy Adoption Through Machine Learning Roof Detection: Led a team for detecting rooftop using instance segmentation models such as Mask RCNN, Detectron2, YOLACT and built a model to detect obstacles based on colour, contour and material using unsupervised learning.

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| **Lead ML Engineer** | **Omdena** | **May 2020- Jun 2020** |

Data mining and analysis regarding an increase in online harassment and domestic violence in the time of COVID19, creating a database and map trends of increase in incidents of domestic violence as seen on publicly available forums. Led a team in NER labelling and modelling for extracting features - texts collected from disparate sources.

| **Student Intern** | **Arista Networks** | **Jan 2019- Jun 2019** |

To build a tool for OSPF visualization and to use the tool for troubleshooting cases related to OSPF states and configurations.

| **Student** | **Amrita Vishwa Vidyapeetham** | **Jun 2018- Jun 2019** |

Extracting Significant Regions Using AI & Human-Computer Interaction System: Aims at initiating a system of human-computer interaction which can simplify the task of object training using hand region segmentation or eye gaze data to address the problem of the digital divide.

Activities

| **Teaching Volunteer** | **U&I** | **Aug 2019 - Present** |

Providing non-formal education for underprivileged children, helping the overall improvement of the child.

| **AI Captain** | **The Climber** | **May 2020 - Present** |

Mentoring students through month-long online workshops where they experience the basics of the AI field in a practical and guided manner, allowing them to make a career choice.

| **Mentor-Leadership Development Program** | **Wedu Global** | **Oct 2020 - Present** |

Share our vision of a future where half of all leadership positions are held by women. A confidante, a guide, and most importantly, an invaluable pillar of support to a young woman's journey to lead the change.

| **Data Analytics Volunteer** | **Reddot Foundation - Safecity** | **Jun 2020- Present** |

Safecity crowdsources personal stories of sexual abuse, the data aggregated as hot spot helps identify factors causing violence and work on solutions. Leading a team to build an AI model to analyze data to link factors leading to behaviour causing violence. Building a chatbot to reach people from Rural to Urban in India relating to Sexual Abuse.

| **AI Expert** | **TechQuartier's Ai Talents** | **Nov 2020-Present** |

This free nine-week Bootcamp is for young professionals and higher-level students interested in learning about AI and machine learning. Participants will work together within small teams on applicable solutions using a data set supplied by a real startup. I support by offering office hours the teams can book to ask their technical questions.

| **Mentor Lead** | **Hack for Hope organized by PersEd** | **Sep 2020** |

The hackathon brought together a global community of innovators and tech experts around a mission: To design a a platform that will connect local talent and remote internship opportunities in an innovative way, bringing back hope to the youth of Lebanon.

Awards & Honours

- Awarded First Class with Distinction on graduation for outstanding academic and leadership skills.
- Speaker at Europe's biggest data conference, DN Unlimited Summit 2020.
- Recipient of Government Award for Bharatanatyam, classical dance form in India.
- Speaker at Omdena's demo day on "Overcoming Data Challenges in Machine Learning"
- Panellist: Human-Centered AI organized by "SOLVED BY DESIGN", an online design symposium, inspired
   by the "WORLD USABILITY DAY 2020" concept - IDF Kolkata, India Chapter.

Certifications

- CodeChef Certified Data-Structures and Algorithms Programme (CCDSAP) -- Foundation Level
- MovePhorward Certified Human-Computer Translator
- Deeplearning.ai specialization

Skills

- NLP, C/C++, Java, Python, Neural Networks, Computer Vision, Machine Learning, Tensorflow