# Venu Vardhan Reddy Tekula

*Curriculum Vitae*

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*DOB: May 28, 1998*

## Education

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| Expected 2020 | **Bachelor's of Technology**, *Computer Science and Engineering*, ASE, Amrita Vishwa Vidyapeetham, Kollam, India. CGPA: 8.22/10.0. |
| 2014 - 2016 | **Higher Secondary**, Narayana Junior College, Hyderabad, India. Marks: 95.1%. |
| 2014 | **Secondary**, Dilsukhnagar Public School, Hyderabad, India. GPA 9.8/10.0. |

## Area of Interests

Cyber Security, Machine Learning, Adversarial Attacks, Deep Neural Networks, Data Analytics, Open Source.

## Experience

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| July 2016 - Present | Member and Student Mentor, **FOSS@Amrita**, Amrita Vishwa Vidyapeetham, Amritapuri. amFOSS (Open Source Club of Amrita) trains students encourage contributions to free and open source software and skill development. I actively mentor juniors and participate in various club activities. |
| July 2019 - August 2019 | Summer School Student, **Ben-Gurion University of the Negev**, Beersheba, Israel. I was selected for a one-month summer course on Data Mining and Business Intelligence with its applications in Cyber Security at BGU, Israel with 92% scholarship and 400 USD stipend. |
| January 2019 - Present | Open Source Contributor, **CHAOSS** - The Linux Foundation. It is an Open Source project focused on creating analytics and metrics to help and define community health. We define, create and implement metrics which helps to make tools for the analysis of different Open Source communities. I am a part of the **WG-Evolution** which is focused on the life-cycle of open source projects. Growth, Maturity and Decline are the important concepts of the metrics. |

## Course Projects

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| August 2019 - October 2019 | **Stock Market Prediction using LSTM** <br> Veena G, Dept. of CSE, ASE, Amritapuri. <br> This project is about analyzing and predicting the stock prices of Google using Artificial Recurrent Neural Network (RNN) architechture. This is a Regression problem. This was made as a part of the project work for the course 15CSE481:Machine Learning and Data Mining Lab. https://github.com/vchrombie/shuri |
| July 2019 - August 2019 | **Analysis of Phishing Detection using SHAP** <br> Dr. Yisroel Mirsky, Shai Cohen, Dept. of SISE, BGU, Beersheba. <br> I worked on the research project of BGU Cyber Labs, Phishing Detection for one month as a part of the *Data Mining and Cyber Security Summer Program*. The motive of the project to extract the important features contributing to the project and make an analysis using SHAP tool. Used Python and Jupyter Notebooks. https://github.com/vchrombie/pd-shap-analysis |

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| March 2019 - April 2019 | **Black Friday Sales Problem** |
| | Dr. Vivek Menon, Dept. of CSE, ASE, Amritapuri. |
| | This project is the team submission for the black-friday-sales Kaggle problem. This was made as a part of the project work for the elective course 15CSE387/2:R for Data Science. Used R and RStudio for completing the challenge. |
| | https://github.com/vchrombie/black-friday-sales |
| August 2018 - November 2018 | **Malicious Web Content Detection using Machine Learning** |
| | Dr. Sajeev G P, Dept. of CSE, ASE, Amritapuri. |
| | This is made as a part of the course 15CSE265:Scientific Computing. A Chrome Extension which checks the website you are browsing, and categorize into SAFE/MALICIOUS, using the Random Forests Model. Built using Python, PHP, HTML/CSS. |
| | https://github.com/vchrombie/cap-america |
| July 2018 - August 2018 | **EcoTourism@Lambasingi** *Student Social Responsibility Project* |
| | We organized a 4-day campaign to *promote cleanliness* in a *remote place Lambasingi*, which is one of the villages in Andhra Pradesh near Visakhapatnam as a part of the *SSR Project*. |

## Technical Projects

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| October 2019 - Present | **Community Hacktoberfest Tracker** I started this project during the Hacktoberfest season. A simple web-app which gives the hacktoberfest stats of your whole community. Built using Flask, Bootstrap and GitHub API. |
| | https://github.com/vchrombie/hackbunch |
| January 2019 - April 2019 | **CHAOSS Microtasks** It was a part of the selection procedure for Google Summer of Code 2019 for the CHAOSS organization. Worked on the implementations of evolution metrics in Python and made detailed analysis reports about the growth of FOSSASIA open source projects. |
| | https://github.com/vchrombie/chaoss-microtasks |
| March 2019 - April 2019 | **Star Wars Analysis** This was a part of the Data Analytics Course. Made a small analysis on the star-wars dataset to find some interesting patterns. |
| | https://github.com/vchrombie/star-wars-analysis |
| January 2019 - February 2019 | **Amma Teachings** An Amazon Alexa application which gives you quotes given by *Amma* whenever you trigger it with a voice call. Built with using Alexa Skill Kit, Python and Amazon AWS Lambda. The application got published in the Amazon Indian Store too. `https://amzn.to/2TTlvD6` |
| | https://github.com/vchrombie/amma-teachings |
| December 2018 | **GitLit** It is a social networking site exclusively for OSS developers. Built with Django, GitHub GraphQL, Bootstrap and Saas. It works by connecting enthusiastic developers to the most interesting and relevant projects to them and forming new communities of like-minded and passionate developers. It works by generating suggestions to user, based on the scores of user and repository calculated based on a set of predefined metrics, through Collaborative Filtering. Made this as a part of the Hackference hackathon. |
| | https://github.com/amfoss/TempleApp |
| October 2018 - December 2018 | **Grootify** A simple Chrome Extension that replaces every image of your web page with Groot. Made using HTML/CSS and JS. |
| | https://github.com/vchrombie/grootify |

## Institute Positions

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| January 2019 - Present | **Head Coordinator, Data Science Team | FOSS@Amrita.** |
| | It is a competitive collegiate data science team. Together, we compete against professional and amateur data scientists from around the world in online prediction challenges. |

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| May 2019 | **Chief Coordinator, Road To Excellence.** <br> I served as the Chief Coordinator for the Data Analytics with Python workshop in the RTE internship program conducted by CIR@Amrita in with the collaboration with FOSS@Amrita. |
| September 2019, 2018, 2017, 2016 | **Student Coordinator, Amritavarsham \| MAM, Amritapuri.** <br> Amritavarsham is the birthday celebration of Mata Amritanandamayi Devi, popularly known as "**Amma**". I volunteered two years for Venue Maintenance and two year for Plate Washing Seva. |
| January 2018 - December 2018 | **Head Coordinator, Social Media Team \| FOSS@Amrita.** <br> It manages the Social Media accounts of the club and keeps them updated with the achievements and activities happening in the club. |
| August 2019, 2018, 2017, 2016 | **Student Coordinator, Amala Bharatham Campaign (ABC) \| MAM, Amritapuri** <br> ABC is a campaign aimed at cleaning India's public places, national highways and tourist places. Every year, it is held on the occasion of the India's Independence Day. |

## Technical Skills

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| Programming | PYTHON, C++, C, JAVA |
| OS | GNU/Linux, Microsoft Windows |
| Tools | LaTeX, JUPYTER NOTEBOOKS, GIT, MS EXCEL |
| Web Development | FRONTEND- HTML, CSS, BOOTSTRAP, JAVASCRIPT <br> BACKEND- FLASK, DJANGO (BASIC) |

## Acheivements

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| Summer Student, 2019 | Got selected as a student to the Data Mining and Businees Intelligence with application in Cyber Security Summer Program at Ben-Gurion University of the Negev (BGU), Israel with 92% scholarship and $400 stipend. |

## Coursework

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| Core Courses | Discrete Mathematics, Database Management Systems, Data Structure, Object Oriented Programming, Scientific Computing, Design and Analysis of Algorithms, Software Engineering, Natural Language Processing, Pattern Recognition, Compiler Design, Machine Learning*, Information Retrieval* |
| Lab Courses | Database Management Systems Lab, Data Structure Lab, Object Oriented Programming JAVA Lab, Operating System Lab, Compiler Design Lab, R for Data Science, Machine Learning Lab* |

* -To be completed by November 2019

## Languages

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| English | Fluent |
| Hindi | Fluent |
| Japanese | Intermediate |