CHETAN SURANA

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SUMMARY

Computer Science graduate student with interests in Data Science, ML and AI. Eager to learn and curiously creative.

EDUCATION

- **M.S in Computer Science** 2019 - 2021

Arizona State University, Tempe, AZ 4/4 GPA

- **B.Tech in Computer Science and Engineering** 2015 - 2019

Ramaiah University of Applied Sciences, Bangalore, India 9.25/10 CGPA

TECHNICAL SKILLS

- **Application Development and Programming:** Python, Java (Enterprise Level), C, Haskell, Google Apps Script, ReactVR, Bash, Assembly Programming, ROS, DIY with Arduino and Raspberry Pi
- **Data Science, NLP, ML & AI:** Tableau, R, Python, MATLAB, Octave, ROS, Rasa, Keras, TensorFlow, OpenCV
- **Mobile App and Web Development:** Flutter, HTML5, CSS3, JavaScript, D3, PHP, MySQL, Bulma, Bootstrap, Materialize

EXPERIENCE

Academic Tutor, Computer Science: Arizona State University, Fulton Schools, Tutoring Center 03/2020 - Present

I assist students in learning and understanding fundamental concepts by tutoring for several undergraduate Computer Science courses, pertaining to C++, Java, Logic, Foundation of Algorithms, Networks, Operating Systems, and others.

Front-end Web Developer Intern: Indegene Inc., Bengaluru, India 06/2018 – 07/2018

Used HTML5, CSS3 and several CSS frameworks to redesign important and frequently used company webpages. Applied Responsive Web Design and Material Design principles to make the webpages aesthetic and fluid universally.

PROJECT WORK

Yelp Dataset Visualization 04/2020

- Redesigned User perspective Yelp restaurant search platform with intelligent visualizations, including Bubble chart, Interactive Map, Ratings trend line chart and Radar chart, Frequent Checkins Heatmap, and Review Sentiment Analysis.

Interactive Visualizations from Historical Cost Data in Budget Books to deliver Valuable Insights 01/2020

- Used Tableau to crunch cost data of a construction project in quarterly Budget Books (PDFs) from 2014-2019.
- Created interactive visualizations that allows assessment of impact of schedule delays on project costs, identification of major cost elements and risk elements.
- Co-presented the work with Simplar Research Institute at WCCC Project Controls Summit in Los Angeles.

Cardiovascular Disease Risk Prediction from Carotid Intima-Media Thickness (CIMT) 09/2019 – 11/2019

- Implemented open snakes (Active Contour Model), to segment Lumen Intima and Media Adventitia interfaces in ultrasound images of the Carotid artery measure CIMT.
- CIMT can be used to assess and predict risk of Cardiovascular disease.

Multi-agent Reinforcement Learning (MARL) 09/2019 – 11/2019

- Designed and implemented a MARL algorithm where two robots learn a policy automatically to pick books designated for each robot. Used Python and ROS and simulated the robots' behavior successfully in Gazebo.

Intelligent Chatbot for Automated Requirements Elicitation and Classification 02/2019 – 04/2019

- Developed a chatbot to elicit formal system requirements from interaction with stakeholders.
- Applied machine learning to classify the elicited requirements into Functional and Non-functional categories.
- First author of Research Paper on the work presented and published in 2019 4th IEEE RTEICT Conference proceedings.

Computer Vision Based Automatic Human Tracking & Activity Reporting System 02/2018 – 04/2018

- Implemented a system to detect, identify and track persons in real time for productivity analysis, using Python and OpenCV.

ACTIVITIES

Communication and Outreach Officer of SkyAtASU club. Co-founder and Core Committee member of Debug and Cynergy - Computer Science clubs at the University during Bachelors' program.