RAMIYA SHREE SESHAIAH

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EDUCATION

The University of Illinois at Chicago - *Masters of Science in Computer Science* **| Jan 2021 – Dec 2022(expected)**
Coursework: Computer Algorithms, Introduction to Machine Learning, Software Development For Mobile Platforms.
Anna University, India - *Bachelors of Engineering in Computer Science and Engineering* **|** June 2016 – May 2020
Coursework: Design & Analysis of Algorithm, Operating System, Internet Programming, Software Engineering, Computer Architecture, Cloud Computing, Database Management Systems, Artificial Intelligence. *CGPA: 8.70/10*

SKILLS

Programming Languages   Python, Java, JavaScript, C+, PHP
Technologies and Frameworks Node.js, Angular, React, Express, Apache, MongoDB, SQL(MySQL, SqLite), Firebase, PHP Codeigniter, Django, Git, SSH, Linux, Machine Learning, Tensorflow, Keras

PROFESSIONAL EXPERIENCE

Software Engineering Intern   **Ethna Attributes Pvt Ltd**   **May - July 2019**
- Developed an android predictive health monitoring application that analyzed the smart band parameters by leveraging 85% through IoT and Machine Learning.
- Established a firebase connection with the app that periodically displays alert pop-ups.

Research Assistant   **Anna University**   **Nov 2018 – May 2019**
- Processed Bayesian Belief Network & Fuzzy Logic model for prediction of graft survival.

TECHNICAL PROJECTS

DEEP SEE CRIME – An AI Based Crime Monitoring System   **Aug 2020**
- Trained an Anomaly detection model with a true-positive rate of 0.73 using **3D Convolutional Neural Networks.**
- Built a web application for crime monitoring system using **JS, Django Restful API and SqLite Database**.

Symptoms based disease prediction using decision tree and electronic health record analysis   **May 2020**
- Using **NLP (NLTK libraries - Corpus & Tokenizers)** generated the summary of health records.
- Prepared **Decision tree model** to predict the disease based on the symptoms they possess.
- Created a **Python Django** web application for managing and accessing the prediction results.

Real-time spontaneous abortion prediction and detection using IoT & ML -   **June 2019**
- Established a prototype of the waist band incorporating **Arduino, Pulse Sensor, Accelerometer, and Temperature sensor** to get the health parameters of a pregnant woman.
- Prepared a model of K-means Clustering that provided 86 percent of accuracy for miscarriage prediction.

Silent-horn: A smart web app for hearing impaired people   **Sept 2018**
- Implemented a web application for accessing information and tracking the medical records using **PHP, JS, HTML, CSS and MySQL**.
- Integrated the app with a sound sensor to alert external sound beyond 60db using visual notifications.

Atrocity Case Management and Monitoring   **March 2018**
- Coded a web application managing different user roles, profiles, uploading cases, notification of new updates and alert messages using **PHP, Google Cloud Platform, JS and MySQL database**.
- Provided a better solution to enhance the management, documentation and monitoring of 5000 cases under atrocity act.

ADDITIONAL EXPERIENCE AND AWARDS

- **Participated in 10+ hackathons: Winner** of Smart India Hackathon 2020, **Participant** in MIT Hacking Medicine
- **Research Paper Presentation - Real-time spontaneous abortion prediction and detection using IoT & ML.**
  - **Winner** of International Centenary Technical Conference of Institute of Engineers India
  - **Best Presentation Award** and **Best Paper Award** for presenting a paper at 9th ICRDET-2019
- **Published** paper entitled **Symptoms based disease prediction using decision tree and electronic health record analysis** in European Journal of Molecular & Clinical Medicine – Scopus Indexed.
- **Mentored** 50+ students by conducting counselor series on various self-improvement topics.