



REVATHY VENKATARAMANAN

Graduate Research Assistant

SKILLS

Programming Languages

PYTHON ██████████
JAVA ██████████

Machine and Deep Learning

TENSORFLOW ██████████
NUMPY ██████████
SCIKIT LEARN ██████████
MATLAB ██████████

Tools and Technologies

ANDROID PROG. ██████████
MATERIAL DESIGN ██████████
SEMANTIC UI ██████████

Database and Operating Systems

MYSQL ██████████
WINDOWS ██████████
LINUX ██████████

Version Control Systems : GITHUB

CONTACT

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REFERENCE

Prof. Amit Sheth - Director

Kno.e.sis Center | Wright State University

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Prof. Krishnaprasad Thirunarayan

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Education

PhD in Computer Science

UNIVERSITY OF SOUTH CAROLINA

Columbia, SC, USA

GPA 3.7/4.0

May 2018 - Present

MS in Computer Science

WRIGHT STATE UNIVERSITY

Dayton, OH, USA

GPA 3.7/4.0

Aug 2016 - Apr 2019

Experience

Graduate Research Assistant

Aug 2019 - Present

Artificial Intelligence Institute | UNIVERSITY OF SOUTH CAROLINA

Working on Knowledge Graph incorporation to enhance food image classification. Developing a nutrition chatbot to track and recommend meals for obesity and educate school children about food and nutrition.

Graduate Research Assistant

Jan 2017 - Jul 2019

Knoesis Research Center | WRIGHT STATE UNIVERSITY

Designed a food image to nutrition framework to monitor diet for bariatric surgery patients. Analyzed asthma patients' data to identify personalized triggers.

UI Developer Intern

May 2015 - Jun 2015

Spintum Technologies | CHENNAI, INDIA

Designed and developed web pages for e-commerce pharmacy website "Medipik"

Android Developer Intern

Dec 2013 - Jan 2014

Nua Trans Media | CHENNAI, INDIA

Developed an android app "XNGNotes" where students can trade their used books and notes.

Research Projects

Nutrition Management Information System

Jan 2018 - Present

A multi modal approach to monitor diet, recommend meals and promote healthy eating habits

NOURICH is an android app and chatbot developed to monitor the individual's dietary patterns and their weight and assist them in making informed decisions about

kHealth Asthma (Team Project)

Jan 2017 - Present

A semantic multi-sensory approach to personalize asthma management in children

Contributions: Analyzed 100 patients data to identify and rank their triggers causing asthma symptoms. Developed API's for data analysis and involved in the design and testing of the dashboard.

Publications

- **Revathy Venkataramanan**, Krishnaprasad Thirunarayan, Utkarshani Jaimini, Dipesh Kadariya, Hong Yung Yip, Maninder Kalra, Amit Sheth. **Determination of Personalized Asthma Triggers from Evidence based on Multimodal Sensing and Mobile Application.**, JMIR Pediatr Parent 2019;2(1):e14300 DOI: 10.2196/14300
- Utkarshani Jaimini, Krishnaprasad Thirunarayan, Maninder Kalra, **Revathy Venkataramanan**, Dipesh Kadariya, Amit Sheth, "How Is My Child's Asthma?" **Digital Phenotype and Actionable Insights for Pediatric Asthma.**, JMIR Pediatr Parent 2018;1(2):e11988, DOI: 10.2196/11988
- Dipesh Kadariya, **Revathy Venkataramanan**, Hong Yung Yip, Maninder Kalra, Thirunarayan Krishnaprasad, Amit Sheth. **kBot: Knowledge-enabled Personalized Chatbot for Asthma Self-Management**, In Proceedings of the IEEE SMARTSYS Workshop on Smart Service Systems (SMARTCOMP 2019), IEEE, 2019.