

Subendhu Rongali

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EDUCATION

UNIVERSITY OF MASSACHUSETTS AMHERST
MS/PHD IN COMPUTER SCIENCE
Expected Apr 2022 | Amherst, MA
GPA: 4.0/4.0

INDIAN INSTITUTE OF TECHNOLOGY MADRAS
BTech in Computer Science & Engineering
Grad. May 2014 | Chennai, India
GPA : 8.8 / 10

FIITJEE JUNIOR COLLEGE
Grad. May 2010 | Hyderabad, India
Percentage : 97.9

COURSEWORK

GRADUATE

Advanced Algorithms
Advanced Software Engineering
Machine Learning

UNDERGRADUATE

Artificial Intelligence
Basic Graph Theory
Decision Models
Fundamentals of Operations Research
Introduction to Machine Learning
Natural Language Processing
Social Network Analysis

SKILLS

PROGRAMMING

Over 5000 lines:
Python • C# • C • Java • Javascript
Over 1000 lines:
Coq • C++ • CSS • PHP • Assembly •
Intersystems Cache
Familiar:
Lisp • Prolog • MySQL

MACHINE LEARNING

Python frameworks:
PyTorch • Caffe • Pandas • Scikit • Weka
Other languages:
MATLAB • R

SOFTWARE ENGINEERING

Coq • Genprog • Daikon

WORK EXPERIENCE

EPIC SYSTEMS CORP. | SOFTWARE DEVELOPER

Oct 2015 – Sep 2017 | Verona, WI

- Part of the R&D team that worked on the Ambulatory (Outpatient) Software for the Epic Software Suite.
- Lead developer/owner for Lifetime, a visual and interactive display of a patient's lifetime clinical data like physician encounters, problems and medications.
- Owner for Growth Charts module.

IBM RESEARCH | RESEARCH SOFTWARE ENGINEER

Oct 2014 – Sept 2015 | Bangalore, India

- Worked with Watson, Cognitive Research, and Smarter Planet Solutions teams on a number of research problems, both in-house and for clients.
- Published work in COMSNETS, SmartGridComm, and IEEE-ISGT.

ADOBE ADVANCED TECHNICAL LABS | RESEARCH INTERN

May 2013 – Jul 2013 | Bangalore, India

- Developed a Privacy Preserving Web Analytics solution based on Elliptic Curve Cryptography.
- Implemented the back-end analytics monitor in Python, and built a browser plug-in, web framework to demonstrate the process in real time.

RESEARCH PUBLICATIONS

- **Learning Latent Space Representation with Correlational Neural Network to Predict Patient Outcome using Electronic Health Records**
Subendhu Rongali & Hong Yu. Proceedings of 3rd International workshop on Biomedical Informatics with Optimization and Machine Learning at IJCAI 2018
- **Taxonomy grounded aggregation of pre-trained flat classifiers**
Amrita Saha, Sathish Indurthi, Shantanu Godbole, Subendhu Rongali & Vikas C. Raykar. Initially under consideration at the 19th International Conference on Artificial Intelligence and Statistics (AISTATS 2016)
<https://arxiv.org/pdf/1512.00355.pdf>.
- **iPlug: Decentralized Dispatch of Distributed Generation**
Subendhu Rongali, Tanuja Ganu, Manikandan Padmanabhan, Vijay Arya, Shivkumar Kalyanaraman & Mohamad Iskandar Petra. Proceedings of 8th International Conference on Communication Systems and Networks (COMSNETS 2016)
- **From Multiple Views to Single View: A Neural Network Approach**
Subendhu Rongali, Sarath Chandar A P & Balaraman Ravindran. Proceedings of 2nd ACM-IKDD Conference on Data Sciences 2015

OTHER RESEARCH

- **Proof completion in Coq using a stacked LSTM model and context from the proof assistant**
Work in collaboration with Yuriy Brun, Arjun Guha, and Emily First.
- **Predicting critical bleeding events in patients using electronic health records**
Work in collaboration with Hong Yu.