BHANU TEJA GULLAPALLI

bgullapalli@cs.umass.edu ◇ *LinkedIn* ◇ *Webpage*[1]

EDUCATION

University of Massachusetts, Amherst Sept '18 - Present
PhD in Computer Science (advised by *Prof. Tauhidur Rahman*)

University of Massachusetts, Amherst Feb '17 - Sept '18
MS in Computer Science CGPA-3.95/4.0

Indian Institute of Technology, Guwahati July '11 - May '15
Bachelor of Technology in Computer Science CGPA-7.81/10.0

RESEARCH INTERESTS

- Wearable Health Sensing
- Mobile Health Systems
- Machine Learning

PAPERS

- On-body Sensing of Cocaine Craving, Euphoria and Drug-Seeking Behavior Using Cardiac and Respiratory Signals
  Gullapalli, B.T.*, Natarajan, A., Angarita, G.A., Malison, R.T., Ganesan, D. and Rahman, T*
  UBICOMP 2019

- A new hierarchical clustering algorithm to identify non-overlapping like-minded communities
  Deepak, T.S., Adhya, H., Kejriwal, S., ***Gullapalli, B.*** *and Shannigrahi, S.,*
  HT 16

INDUSTRY EXPERIENCE

Samsung R&D Institute, Bangalore, India Jul '15 - Dec '16
Worked in the Video Editor team of Samsung Camera. Bangalore, India

Samsung R&D Institute, Bangalore, India May '14 - Aug '14
Developed a networking protocol for Samsung OS - Tizen. Bangalore, India

KEY RESEARCH PROJECTS

Opioid administration using wearable biosensors Jul '19 - Present
Detecting opioid administration using physiological changes in the subjects admitted to the emergency department.

Sensing Cocaine Craving, Euphoria and Drug-Seeking Behavior Using Cardiac and Respiratory Signals Apr '18 - Feb '19
Built a system which can understand and predict key variables of the addiction loop using ECG and the respiratory signal obtained from a wearable chest band.

Drug Target prediction using Deep Representation Learning Jan '18 - Apr '18
Using graph convolution and attention mechanism, built an interpretable system which can identify proteins affected by a drug.

Tree-Structured Detector Cascade May '17 - Aug '17
Developed a novel way to grow and find the optimal configuration of a tree-structured cascade and applied it to smoking detection.

[1]Use URL bhanutejagullapalli.github.io in case hyperlinks don't work

ACHIEVEMENTS

- Received Spot Award in Samsung R&D Institute Bangalore for providing good solutions and coding skills
- Won the first prize at Samsung R&D Institute Bangalore tech-fair for developing a location-based filter for Samsung video editor.
- Listed among top 0.3% students of 0.5 million appearing inJoint Entrance Exam, IIT-JEE 2011
- Secured 961 rank in All India Engineering Entrance Exam (AIEEE) 2011 taken by 1.2 million people.