Adithya V Ganesan

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EDUCATION

STONY BROOK UNIVERSITY
Aug 2019 - Present | Stony Brook, NY
Masters in Computer Science
CGPA: 3.92/4.0 (IInd semester)
Advisor: H Andrew Schwartz

SSN COLLEGE OF ENGINEERING
2015 - 2019 | Chennai, India
BE - Computer Science and Engineering
CGPA: 8.13 (on a 10 pt. scale)

SKILLS

PROGRAMMING
Proficient in:
Python • C++ • MySQL • Arduino
Familiar with:
Shell • Java • HTML • LaTeX• Javascript

PLATFORMS
Linux • AWS • Azure

FRAMEWORKS & LIBRARIES
git • Tensorflow • PyTorch • PySpark

HARDWARE
Arduino • Raspberry Pi • BeagleBone

COURSES

CSE 519: Data Science Fundamentals
CSE 538: Natural Language Processing
CSE 545: Big Data Analytics
CSE 532: Theory Of Databases
CSE 512: Machine Learning [Ongoing]

LINKS

Github: **adithya8**
Website: **adithya8.github.io**
Google Scholar: **Adithya Ganesan V**

EXPERIENCE

NONPROLIFERATION AND NATIONAL SECURITY DEPT.
Summer Research Assistant — June 2020 - Aug 2020

SOLARILLION FOUNDATION | A Research Outreach
Undergraduate Research Assistant — Jan 2017 - May 2019

MOTORQ | A Connected-Car Data Platform
Data Science Intern — June 2018 – Aug 2018, Dec 2018 – Jan 2019

RESEARCH AND PUBLICATIONS

UNDERSTANDING WEEKLY COVID-19 CONCERNS THROUGH DYNAMIC CONTENT-SPECIFIC LDA TOPIC MODELING
A dynamic content-specific LDA topic modeling technique that can help to identify different domains of COVID-specific discourse that can be used to track societal shifts in concerns or views. Experiments show that these model-derived topics are more coherent than standard LDA topics. This will appear in the NLP+CSS workshop in EMNLP 2020.

DEEPTRACE: A GENERIC FRAMEWORK FOR TIME SERIES FORECASTING
A generic framework of model architectures that could forecast across all classes of time series datasets. This work established a novel training methodology by using the 'future' context of data. Was presented at at International Work-Conference on Neural Networks, Gran Canaria, Spain 2019. Published in the Springer Series: AICI LINK TO CODEBASE

FORECASTING FOOD SALES IN A MULTIPLEX USING DYNAMIC ARTIFICIAL NEURAL NETWORKS
Worked in collaboration with one of the top 3 multiplex chains in India and led a team of 3 other RAs, building models to make a day ahead prediction of customer demand to reduce wastage of food. The model resulted in saving 170 units of food per day. Was accepted by the CVC 2019, Las Vegas. Published in the Springer Series: AISC. LINK TO CODEBASE

DESIGN OPTIMIZATION OF ACTIVITY RECOGNITION SYSTEM ON AN EMBEDDED PLATFORM
A human activity recognition engine optimized on grounds of cost, computational complexity and power consumption without compromising on efficiency by engineering time-domain features and deployed in Raspberry Pi Zero. Presented in the FICC 2018, Singapore. Published in the Springer Series: AISC. LINK TO CODEBASE

PROJECTS

AUTOMATION OF TA TASKS ON SLACK
Wrote scripts to automate TA tasks such as keeping track of students' progress, schedule and announce the weekly TA hours and sending out assignments to the students using the slack API. LINK TO CODEBASE