Ateendra Ramesh

https://ateexd.github.io
ateendra@buffalo.edu | +1 716-748-1385

EDUCATION

UNIVERSITY AT BUFFALO
MS in Computer Science
Expected May 2020 | Buffalo, NY
CGPA: **/4.0

SSN COLLEGE OF ENGG.
BTech in Information Technology
June 2013 - April 2017 | Chennai, IN
CGPA: 8.01 / 10.0

LINKS

Github:// **ateexd**
LinkedIn:// **ateendra-ramesh**

COURSEWORK

GRADUATE
Intro to Machine Learning
Algorithms: Analysis and Design
Operating Systems
Computer Security

UNDERGRADUATE
Data Warehousing and Data Mining
Data Analytics
Microprocessors and Microcontrollers
Programming & Data Structures
Probability and Queuing Theory
Computer Networks

SKILLS

PROGRAMMING
Proficient
Python • C++ • C • LaTeX
Familiar
Bash • Java • JavaScript • CSS • SQL •
FORTRAN • Go-Lang
Frameworks
TensorFlow • Scikit-Learn • Flask •
MySQL
Platforms
Linux• MacOS • Android • AWS

EXPERIENCE

SOLARILLION FOUNDATION | Research + Teaching Assistant
Feb 2016 - Jun 2018 | Chennai, India
- Researched and worked on low-cost and efficient IoT solutions for gesture and activity recognition & machine learning and published findings in conferences.
- Administered a machine learning server and NAS system.
- Helped students in developing problem-solving skills and taught them fundamental concepts in programming and embedded systems.

PUBLICATIONS

MOVIE OCCUPANCY FORECASTING [TO BE SUBMITTED]
Mar 2017 – Aug 2017 | Chennai, India
- Worked in collaboration with one of the top 3 multiplex chains in India.
- Engineered and extracted features for forecasting occupancy of a movie's premiere from current and history booking data.
- Developed a real-time prediction platform to announce aforementioned forecast on Slack and GMail to the multiplex and currently working on publishing findings at SDM 2019.
- Tools used: Scikit-Learn, Tensorflow, Numpy, AWS, SQL Server.

DESIGN OPTIMIZATION OF ACTIVITY RECOGNITION SYSTEM ON AN EMBEDDED PLATFORM
Mar 2017 – Aug 2017 | Chennai, India
- Designed an activity recognition engine optimized on grounds of cost, computational complexity and power consumption using data acquired in three publicly available datasets. Deployed the same in a low-cost Raspberry Pi Zero.
- Tools used: Scikit-Learn, Tensorflow, Numpy, Raspberry Pi.

LOW-COST STATIC GESTURE RECOGNITION SYSTEM USING MEMS ACCELEROMETERS
Feb 2016 - Nov 2016 | Chennai, India
- Built a wearable glove prototype with accelerometers and developed a lightweight algorithm to efficiently recognize alphabets of the American Sign Language.
- Tools used: Arduino, C++

PROJECTS

INTELLIGENT BUS STOP RECOGNITION SYSTEM
Jan 2017 – Apr 2017 | Chennai, India
- Developed a system that identifies 8 bus-stops using images acquired from cameras placed atop a bus using a simple hybrid nearest neighbor algorithm.
- Tools used: Scikit-Learn, Numpy.

SF_AUTOMATION
Jan 2017 – Apr 2017 | Chennai, India
- Created a Flask app to calculate attendance using time-stamps from a biometric attendance machine for SF.
- Created a bot that schedules and announces office hours for TAs and tracks progress made by students at SF on Slack.
- Deployed the aforementioned systems in Heroku.
- Tools used: Pandas, Numpy, Flask