Aashish Kumar Jain

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EDUCATION

UNIVERSITY AT BUFFALO
Aug 2018 - Dec 2019 (Expected)
Buffalo, NY, USA
M.S. in Computer Science and Engineering
CGPA: 3.58/4.0

VELAMMAL ENGINEERING COLLEGE
(Affliated to Anna University)
Aug 2013 - Jun 2017
Chennai, TN, India
B.E. in Electrical and Electronics
CGPA: 7.62/10

LINKS

Website:// **aashish-jain.github.io**
Github:// **aashish-jain**
LinkedIn:// **aashish-jain**

COURSEWORK

- Analysis of Algorithms
- Introduction to Machine Learning
- Operating Systems
- Introduction to Parallel and Distributed Computing

PROGRAMMING

PROFICIENT IN
Python • C • C++

FAMILIAR WITH
Java • C# • Bash

APIS AND FRAMEWORKS
- MPICH • OpenMP
- Tensorflow • Keras
- PySpark • OpenCV
- CUDA • Boost

SERVICES
- AWS • Heroku

HARDWARE

- ATMEGA Microcontrollers
- Raspberry Pi
- BeagleBone Black

EXPERIENCE

SOLARILLION FOUNDATION | Chennai, India

Full-time Research Assistant | May 2017 – Jul 2018
- Developed a Machine Learning model for movie turnout prediction in collaboration with an Indian multiplex chain and deployed it in real-time.
- Administered Server and NAS dedicated for research in Machine Learning.

Teaching Assistant | Sep 2016 – Jul 2018
- Mentored students working on research projects in the domain of embedded system and Machine Learning.
- Framed questions to orient students for research in ML.

Undergraduate Research Assistant | Sep 2016 – Apr 2017
- Developed Non-intrusive Load monitoring system algorithms for embedded systems.
- Built a DAQ system with test-bench for acquiring data for building NILM models.

PUBLICATIONS

- **Peak based Device Classification for NILM on a low-cost Embedded Platform using Extra-Trees**
  link: https://ieeexplore.ieee.org/document/8284200
  Presented at MIT Undergraduate Research Technology Conference 2017
  Worked on Data pre-processing and Classification Algorithm
  Used: Python, Scikit-learn, Tensorflow, Raspberry Pi 3
- **Low-cost non-intrusive device identification system**
  link: http://ieeexplore.ieee.org/document/7791140/
  Presented at IEEE Dallas Circuits and Systems Conference 2016
  Worked on feature engineering and run-time testing
  Used: Arduino, Python

PROJECTS

- **Day-ahead Movie Occupancy Forecasting**
  Worked on data pre-processing and engineered features from the booking transactions of a movie for day-ahead forecast of a movie's occupancy using deep learning.
  Used: Tensorflow, Keras, Scikit learn, AWS S3, SQL server
- **Performance Updater**
  Built a slack-bot that displays students' attendance and progress when summoned.
  Used : Slacker, Python, Pandas, Google API, Heroku
- **Server with Network Attached Storage (NAS)**
  Assembled and configured a Server with NAS dedicated for Research Purposes at SF.
  Used : Memtest, Stress
- **High-speed DAQ for NILM**
  Built a high-speed Data acquisition and test-bench for NILM.
  Used: Beaglebone Black Programmable Real-time Unit (PRU)

ACHIEVEMENTS

- **Best Research Performer** 2016 - Solarillion Foundation.
- **E-yantra** 2016 - Semi-finalist of national level robotics competition organized by IIT Bombay.
- **Best orientation Performer** 2015 - Solarillion Foundation.