

## ABHILASH VALLAMKONDA

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### EDUCATION

**Texas A&M University**, College Station, Texas  
MS in Computer Science

August 2019  
GPA : 3.9/4.0

**National Institute of Technology**, Karnataka  
BS in Electrical Engineering

May 2014  
GPA : 8.5/10.0

#### Relevant Coursework

CSCE 625: Artificial Intelligence, CSCE 633: Machine Learning, CSCE 606: Software Engineering, CSCE 629: Analysis of Algorithms, ECEN 742: DSP Based Motion Control, CSCE 608: Database Systems

#### MS Thesis

July 2019

*Model Attack on Convolutional Neural Networks*

We analyzed the threat of hackers causing a deep neural network to misbehave by modifying its parameters. We demonstrated that such an attack is possible and proposed strategies to detect it.

### PROJECTS

- Designed a Recurrent Neural Network model to answer questions based on a passage of text.
- Built a crowdsourcing website to enable collection of data for research on incentive-driven performance.

### WORK EXPERIENCE

#### University Writing Center

*Writing Consultant*

August 2018 - August 2019

- Tutored students to help them improve their writing and speaking skills in online, face-to-face and web conference sessions.
- Developed a program to anonymize session notes so that they could be analyzed without compromising the students' identities. Identifying names is a Named-entity recognition (NER) problem, and my code leveraged the [WordNet](#) database to decide whether a given word was a name or not.

#### Robert Bosch Engineering and Business Solutions Ltd, Bangalore

*Software Engineer (Embedded Systems)*

July 2014 - July 2016

- Developed low-level software to operate the Lambda Sensor (lambda is the Air to Fuel ratio in the engine).
- Initiated and performed Component level testing for the Lambda Sensor Package.
- Responsible for the integration and testing of the Lambda Sensor package; this allowed me to gain an in-depth understanding of the entire package.
- Mentored new recruits and helped them gain an understanding of the system.

### SKILLS

Python, Tensorflow, Django, Javascript, C++, C, Verilog, Microcontrollers, Prolog, Matlab

### EXTRACURRICULAR ACTIVITIES

- I enjoy dancing, so I am a member of Aggie Swing Cats, a dance organization for Swing Dancing.
- I am a member of Texas Runners Against Cancer, a running organization.
- Participated in TamuHack 2018 and 2019, successfully completing my project on both occasions!