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Bhuvanesh Abburi

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Education

Mississippi State University — **Starkville, MS** — **Jan 2020 – Dec 2021 (Expected)**

- **M.S. in Computer Science, GPA: 3.8**

Indian Institute of Information Technology — **Vadodara, India** — **Aug 2015 – May 2019**

- Bachelor of Technology in Computer Science

Publications

A performance-oriented comparison of neural network approaches for anomaly-based intrusion detection. IEEE Symposium Series on Computational Intelligence SSCI, Orlando Florida USA, 2021.

Work Experience

Graduate Service Assistant — **Mississippi State University, Starkville** — **Jan 2020 - Present**

- Redesigned the web pages of the university website to make them more user-friendly and compatible.
- Created an automated **PHP** script to formal excel sheet for timesheet data and saved **20**-man hours.
- Oversee the distance learning classrooms at Bagley College of Engineering at Mississippi State University.
- Manage high-quality completion of Crestron systems engineering and programming.

Blockchain Developer — **Param.Network, Bengaluru** — **Sep 2019 – Nov 2019**

- Worked on designing a new method to replace gas for an ethereum based network with tokens and decreased network latency by **18%**.
- Created landing pages Worked on the back-end fetching data from graph database and integrating it with the front-end pages.

Projects

Advbert: BERT for Adversarial Security — **Fall 2021**

Fine tuned **BERT** model to make it understand the context of machine learning security which in turn can also detect the type of adversarial attacks. This model decreased the loss by **0.41** and achieved a precision of **0.8**.

Face Mask Detection link — **Spring 2021**

Developed a real-time face mask detection application based on **CNN** model using **Tensorflow** with **Keras** and **OpenCV**. Real-time classification is performed using a Cascade Classifier and achieved an accuracy of **89%**.

Autonomic Secure System — **Fall 2020**

Built a real-time Intrusion Detection system based on machine learning. Worked as a team of **4** and majorly contributed to building the model and fine-tuning it. A deep neural network with **Keras** is used for building a model and achieved an accuracy of **69.4%**.

E-voting using Blockchain — **Jan 2019 - May 2019**

In this project, implementation of Blockchain Technology on mixed networks for E-Voting possible methods were discussed along with potential future advancements and security issues.

Study Monk link — **Aug 2017 - Dec 2017**

Led a team of five in creating a web-app **Study Monk** to share the lectures of reputed institutes with other people. Worked as a Test Engineer and performed testing on the developed software.

Languages and Technologies

- **Java, C, Python, R, Ruby, Bash, C#**
- **HTML, CSS, JavaScript, MySQL, PostgresSQL, Graph Database, React JS, Django**
- **Pandas, Numpy, Keras, Sklearn, Matplotlib**

Extra Curriculars

- Successfully reported a bug to Intel and received appreciation from Intel.
- Worked as Treasurer at Indian Students Association Mississippi State University
- Worked as core team manager at Institute's fest Aloha 18