**Vathepalli Vamsi Bushan**

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**GitHub URL:** <https://github.com/vbushan?tab=repositories>

**EDUCATION**

**MS in Data Science** **2019-2021**

Indiana University- Bloomington **GPA: 3.67/4**

**B. Tech in Electronics and Telecommunication Engineering 2011-2015**

Veer Surendra Sai University of Technology, India **GPA: 8.26/10**

**TECHNICAL SKILLS**

Python, Machine Learning, Exploratory Data Analysis, Deep Learning, Time Series Analysis, Software Development, Java(J2EE), HTML 5, CSS, JavaScript, Hibernate, JSF, SQL/PLSQL, JDBC, SONAR, Jenkins, Docker, MATLAB, VHDL.

**RELEVANT COURSE WORK-**

Elements of Artificial Intelligence (CSCI-B551), Applied Machine Learning (CSCI-P556), Introduction to Intelligent Systems Engineering (ENGR-E503), Machine Learning for Signal Processing (ENGR-E511), Introduction to Statistics (STAT-S520), Applied Algorithms (CSCI-B505), Image Processing for Medical Applications (ENGR-E535), Time Series Analysis(STAT-S650).

**ACADEMIC PROJECTS:**

* Currently working on a capstone project that involves analyzing historical data of soccer matches in European leagues, like- LaLiga, EPL, and Bundesliga to determine the team parameters and player attributes that affect the outcome of a match; further will be using these parameters to make a prediction on the outcome of a match, using supervised learning algorithms.
* Simultaneously, working on another academic project which involves the implementation of classical Convolutional Neural Network architectures like- VGG16, VGG19, ResNet, Inception architecture to perform fine-grained image classification among 9 objects typically found in a classroom. The project also demonstrates the transfer learning capability of Convolutional Neural Networks.
* Worked on optimization of the performance of CMOS transistor through structural design modulation, and later submitted a thesis to the department. The project involved simulating the performance of the transistor through myHDL, which converts python into a hardware description and verification language.
* Designed a manual robot and represented our university, as an undergrad, at a national robotics design event, “Overhaul”, organized by Indian Institute of Technology, Kharagpur. The event involved traversing a robot through a rough terrain. The design was appreciated and demonstrated in a tech-exhibit following the event.

**PROFESSIONAL EXPERIENCE**

**Systems Engineer Trainee| Infosys Limited, Mysore Aug 2015- Jan 2016**

* Designed a Courier delivery service platform using Python, JDBC, and SQL, as a capstone project which is a pivotal part of the training program at Infosys.
* Designed an eTrain ticket service platform using J2EE, Hibernate, JSF, JQuery, HTML, and CSS, as another capstone project.

**Senior Systems Engineer| Infosys Limited, Bangalore Feb 2016- Feb 2018**

* Migrated 9 web applications in the service supply chain of CISCO systems, which has Infosys as one of its service partners, into Cloud Application Environment (CAE) using Red hat, Docker and Kubernetes.

**Technology Analyst| Infosys Limited, Bangalore Mar 2018- Jan 2019**

* **Security Analytics:** Scanned 5 web applicationsusing proprietary software like IBM Baseline Application Vulnerability Assessment (BAVA), Deep Application Vulnerability Assessment (DAVA) to verify and fix the vulnerabilities of an application to cyber-attacks like Cross-site Scripting, Cross-site Request Forgery, and Blind SQL injection.
* **Code Analytics:** Implemented SonarQube, open-source software which generates quality analytics for code and integrated it with Jenkins to ensure that the deployed code meets coding standards, as specified by the client, before it’s moved into production.

**Corporate Social Responsibility:**

* Volunteered for a social initiative called, “Food for thought”, which is organized by Infosys and aims at reducing food wastage across corporate food courts by raising awareness through flash mob dramas.