Prashanth Sateesh

psateesh@iu.edu|+1 (248) 719 3687 |Bloomington, Indiana
github.com/prashusat|linkedin.com/in/prashanth-s-a251a699

EDUCATION:

Indiana University at Bloomington, Luddy School of Informatics, Computing and Engineering **May 2021**
Master of Science in Data Science **(GPA: 3.8)**
National Institute of Technology, Warangal **May 2019**
Bachelor of Technology in Electronics and Communications Engineering
Relevant Coursework: Problem Solving and Computer programming, Data Structures, and Algorithms, Image Processing, Elements of Artificial Intelligence, Machine Learning, Introduction to Statistics
Ongoing Coursework: Time Series Analysis, Exploratory Data Analysis, Management, Access and Use of Big Data

TECHNICAL SKILLS:

Programming/Scripting Languages: Python, R, C++, SQL, HTML, CSS, Javascript
Machine Learning: Regression Techniques**,** Exploratory Data Analysis, Feature engineering, KNN, Naive Bayes, SVM, Tree-Based Models(Decision Trees), Ensemble models, PCA, T-SNE, Neural Networks(CNNs), Bayes Nets, HMM, GLMs, Gradient boosting, MCMC, Time Series, Bayesian Model Selection, Gradient Descent, Newton's Method.
Libraries: Numpy, Pandas, Matplotlib, Scikit-learn, NLTK, OpenCV, Plotly, Seaborn.
Statistics: Hypothesis Test, t-test, z-test, Chi-square test, ANOVA test
Tools and Platforms: Keras, Tensorflow, MySQL, MS-Excel, MS-Powerpoint, MS-Word

WORK EXPERIENCE:

Associate Instructor-Luddy School of Informatics, Computing, and Engineering **present**
B455-Principles of Machine Learning
-Design assignments for the course
-Mentor groups of students to accomplish end-to-end Machine Learning Projects.
Web developer - WSDC NIT WARANGAL (On-campus job) **2016-2017**
-Worked as a junior software developer for a year and built the front end part of my college website.
-Administered the institute website for a year.

PUBLICATIONS:

Customizable Dynamic hand gesture recognition system using Siamese Neural Networks **March 2019**
Presented at IEEE International Conference on Information Technology and Artificial Intelligence(ICAIIT,2019)
-Most gesture recognition systems come with gestures that are predefined by the maker of the system. This is a major disadvantage for people who are motor impaired. So, we designed a system that can be customized to user-specific needs. This system can be used by motor-impaired people to communicate their needs and control various applications using gestures.

PROJECTS:

Microsoft Malware prediction Kaggle problem | *Sklearn, Numpy, Pandas, Google-Cloud Platform* **October 2019**
-Predict a Windows machine's probability of getting infected by various families of malware, based on different properties of that machine.
-A tree-based model was found to be the most effective and gave the best results.
Image orientation classifier | *Python, Numpy* **December 2019**
-Built 3 different models to classify the orientation of images in a dataset. All 3 models were built from scratch using Python and NumPy.
-Decision Tree model: 67% accuracy.
-K-nearest neighbor: 71%
-Vanilla neural network:88%
Classification of Projects on Donors Choose Dataset | *Sklearn, Numpy, Pandas, Google-Cloud Platform* **September 2019**
-Built a predictive model for Donorschoose.org dataset to predict whether a project will get funding or not.
-Cleaned the dataset and performed Exploratory data analysis(PCA and T-SNE).
-Built 4 different models(Logistic Regression, Naive Bayes, SVM, and Decision Tree) and compared the performances.
Analyzing data packets using neural networks for Network Security threats | *Python, Numpy* **January 2018**
-Built a neural network to analyze packets of data collected using Wireshark. Built and trained neural networks from scratch without libraries, which helped me gain good hands-on experience with Deep learning.

LEADERSHIP EXPERIENCE:

-Class Representative(Students Council position) of the ECE department at NITW(2018-2019)
-Secured First Place in Model United Nations at National Institute of Technology, Warangal(Technozion-2015)