GEETHA KAMATH KOTESHWAR

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EDUCATION

University of Florida *August 2019 - Present*
MS in Computer Science (GPA: 3.39/4.0)
Relevant Coursework: Analysis of Algorithms, Advanced Data Structures, Distributed Operating Systems, Machine Learning, Computer Networks

Nitte Meenakshi Institute of Technology *August 2014 - May 2018*
BE in Computer Science and Engineering (GPA: 8.84/10.0)
Relevant Coursework: DBMS, Software Engineering, Big Data Analytics, Operating Systems, Artificial Neural Networks

SKILLS

Programming Languages: Python, C, C++, Java, SQL, CSS, HTML, JavaScript, Android
Tools: NumPy, TensorFlow, Keras, Hive, Hadoop, Pig, MySQL, MongoDB

EXPERIENCE

Intern **Bengaluru, India**
L&T Technology Services *May 2017 - June 2017*

- Involved in the seamless integration of smart city components like Smart Traffic, GIS Maps into one framework.
- Tested GIS Maps functionality and its compatibility with traffic systems using GIS Maps application on an Android device.
- Deployed rectifications in application based on tests and enabled it to display traffic conditions in real-time along with names of places in local dialect.

Undergraduate Researcher **Bengaluru, India**
Centre for Robotics Research, NMIT *May 2016 - July 2016*

- Worked on developing obstacle detection algorithms using Python for robots which gave real-time feedback changing the trajectory of the robot.
- Worked on object detection algorithms for resource constrained environments.

ACADEMIC PROJECTS

Google Landmark Challenge (Python) *August 2020 - Present*

- Performing exploratory data analysis on the dataset and implementing a baseline model using ImageNet.

Histopathologic Cancer Detection (Python) *January 2020 - May 2020*

- Developed a Convolutional Neural Network (CNN) that predicts the presence of cancer in histopathologic slides of lymph nodes by using TensorFlow, NumPy and Keras to achieve an accuracy of 94.96%
- Performed a comparative study between Support Vector Machines and CNNs and concluded that CNNs were most accurate with an accuracy of 94.86% while SVM had an accuracy of 62.45%

Vision based Traffic Density Estimation and Surveillance (Python) *August 2018 - December 2018*

- Designed a system to handle traffic signals based on traffic density by building a CNN trained on GoogleAI Open images dataset.
- The algorithm had an accuracy of 98.7% at detecting vehicles and people.
- Implemented using YOLO V3, MobileNets and the prototype was built using Raspberry Pi3.

Credit card Fraud Detection (Python) *January 2018 - May 2018*

- Designed a system to detect fraudulent credit card activity based on features such as amount, time, and location of the transaction.
- Used Semi-supervised classification using auto-encoders to achieve an accuracy of 98.28%

Heart Disease Prediction (R) *January 2017 - May 2017*

- Designed a system that predicts if a person has heart disease based on features such as gender, blood pressure, and blood sugar.
- Performed a comparative study between Linear Regression and SVM and concluded that SVMs had a better accuracy with 94.14% whereas Linear Regression had an accuracy of 93.65%

CERTIFICATION

- AWS Fundamentals - Amazon Web Services on Coursera
- Big Data Specialization- UCSD on Coursera