Sangaraju Charitha

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Education

M.Tech in Computer Science and Engineering, Senior Year 2016 - 2018
National Institute of Technology Karnataka, Surathkal, India
- CGPA of **8.39**/10 (June 2017)

B.Tech in Computer Science and Engineering 2010 - 2014
Sri Venkateswara University, Tirupati, Andhra Pradesh, India
- CGPA of **8.16**/10 (June 2014)

High School - Sri Chaitanya Academy Junior College, Tirupati, Andhra Pradesh - 97.1% 2008 - 2010
Secondary School - Sri Chaitanya Children's Academy, Tirupati, Andhra Pradesh - 90.33% 2007 - 2008

Experience

Summer Internship at NITK on Predicting Relevant News Events for Timeline Summaries using Supervised Machine Learning Technique: June 2017 - July 2017
Built an automated text summarizer for generating timeline summaries of news articles using SVM and Linear Regression.

Systems Engineer at Infosys Limited, Bangalore January 2015 - July 2016
Worked for Goldman Sachs client on the project, Regulatory Operations, to develop and update the position reports according to the client requirements using Java Technology.

Technical Proficiency

Areas of Interest - Networks, Databases, Data Structures
Languages - C, Java, C++, SQL, Python(basic)
Web Technologies - HTML, CSS, Java Script, Angular JS(basic)
Application Software - ns-3, MATLAB(basic)
Operating Systems - Windows, Linux
Tools/Frameworks - Eclipse, weka, Github, JDBC, Servlets, JSP, JSF, SQLplus, Visual C++

Projects

All projects available on git : `https://github.com/CharithaS`

- **TCP Low Priority in ns-3** : Tcp Low Priority is a Tcp variant for low priority data transfer in which the low priority data utilises only the excess bandwidth.Test suite and examples were made to validate the algorithm. The project is to be merged into ns-3 which is now under review.
- **Load/Delay Controllers in ns-3** - Load/Delay Controllers are a class of Active Queue Management Algorithms which take into account both the load factor (ratio of packet arrival rate to the packet drain rate) and the queuing delay metric for drop probability calculation.
- **AOMDV Routing Protocol (Ongoing)** : Currently working on the project on AOMDV routing protocol in ns-3. Ad hoc On-Demand Multipath Distance Vector is a routing protocol which computes multiple paths from a source to a destination during route discovery phase. It is designed for highly dynamic ad hoc networks.
- **Modified Decision Based Median Filter for Impulse Noise Removal** : Median Filter is used to remove noise from corrupted images. This project implemented a modified median filter which gave better performance compared to basic median filter and extended by implementing a non local median filter based on the concept of non local means.

Achievements

- High Performer in Java stream training at Infosys Mysore.
- Received Most Valuable Player (MVP) award in Infosys for my contribution towards the project - Regulatory Operations.