Vaijyant Tomar
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EDUCATION

Master of Science in Computer Science May 2018
University of North Carolina Charlotte, Charlotte, North Carolina 3.9/4.0
Coursework: Software System Design and Specification, Data Structures and Algorithm Design, Machine Learning, Computational Human Behavioral Model, Intelligent Systems, Knowledge Discovery in Databases

Bachelor of Technology in Computer Science & Engineering with Honors June 2015
Dehradun Institute of Technology, Dehradun, Uttarakhand, India 80.36/100

TECHNICAL SKILLS

Development: Java, Python, C, Shell Scripting, J2EE, Django, HTML, REST, XML, CSS, JavaScript, jQuery, Node.js, Tomcat
Database: SQL, MySQL, SQL Server, Oracle, Firebase (NoSQL).
Machine Learning: Pandas, Scikit-learn, NumPy, Matplotlib, TensorFlow.
IDE: IntelliJ IDEA, Eclipse, Spyder, PyCharm, Jupyter.
Project Management: JIRA, Agile, Perforce P4V, Git, GitHub.

WORK EXPERIENCE

Infosys Ltd. *(Pune, India)*
Systems Engineer July 2015 – December 2016

- Analyzed requirements, collaborated with business users to resolve issues in project implementation.
- Developed various Informatica Workflows to load the data from upstream systems and Sybase datastores.
- Engaged in every phase of Software Development Life Cycle and employed agile method of software development.
- Tracked and managed agile development of the project using JIRA.

Infosys Ltd. *(Mysore, India)*
Intern February 2015 – June 2015

- Developed a web application titled Integrated Medical Treatment using Open Source technologies – PHP, Java, HTML, CSS, JavaScript
- Performed Integration testing and unit testing to comply with the design specification.

Indian Institute of Remote Sensing *(Dehradun, India)*
Intern May 2014 – July 2014

- Developed Multi-Modal Road Transport System for Dehradun City using Open Source Tools – ArcGIS and OpenStreetMap.
- Parsed OSM XML data source files to retrieve geo-coordinates.

PROJECTS

Emotion Detection in Speech
Link: https://github.com/Vaijyant/ITCS-6050-ComputationalHumanBehaviourModel

- Detected human emotion from human speech, in the English language, by extracting acoustic features with an AUC of 75.78%.
- Implement classification models such as Random Forest, Support Vector Machine, K-Means clustering, and Neural Network along with tuning the hyperparameters for the algorithms.
- Preprocessed data to remove meta data associated with the audio *.wav files.

Machine Leaning Algorithms
Link: https://github.com/Vaijyant/ITCS-6156-MachineLearning

- Implemented Algorithms for Principal Component Analysis, K-Means clustering, Logistic regression, Linear discriminant analysis and Neural network from scratch in Python.

Java Web App**:** *Bookstore, Notes:*
Link: https://github.com/Vaijyant/Notes, https://github.com/Vaijyant/ITCS-6160-DatabaseSystems

- Developed J2EE Web App using MVC architecture and implementing JDBC-ODBC bridge to access MySQL database.
- Developed GUI using HTML, CSS, and JavaScript.

Robot Motion Planning
Link: https://github.com/Vaijyant/ITCS-6150-IntelligentSystems/tree/master/ISProjectFinal

- Implemented LRTA* Algorithm for robot motion planning. To simulated robot motion, the algorithm was implemented in a Java Swing application.

CopyToFlash
Link: https://github.com/Vaijyant/CopyToFlash

- Developed Java GUI application title *CopyToFlash* which copies a single file to all the connected disk drives on a single click.