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Riyu Banerjee

Education

University of Michigan
Ann Arbor, MI.
Majoring in Computer Science
College of Literature Science & Art
Expected Graduation : 2017

Relevant Courses

- Introduction to Computer Organization EECS 370
- Data Structures and Algorithms EECS 281
- Introduction to Machine Learning EECS 445
- Introduction to Operating Systems EECS 482 (Winter 2016)

Projects

Amazon Review Helpfulness Prediction **September 2015 - December 2015**

Algorithm that takes in data sets of Amazon reviews and finds a model to predict helpfulness

- Converted Amazon reviews into a set of features such as word2vec values, word count, and sentiment.
- Utilized experiments of various machine learning algorithms such as SVM and Logistic Regression to find the best prediction model

Big Data Buses Application **February 2015 - May 2015**

A replacement for the current university bus app with stat tracking of users sent to a server for extrapolation of meta-data

- Oversaw and managed a team of students with various technical skills
- Utilized the Google Maps API on Android to provide a smoother and more accurate experience than current bus app

MHacks Android Application **October 2014 - August 2015**

Developed the MHacks V and 6 Hackathon applications

- Updated application for Android 5.0 material design standards
- Pulled data from a Parse back-end and cached data on application

Backseat Driver Android Application **September 2014**

Application which teaches you step by step how to drive a stick-shift vehicle using data collected from the OBD II port in a vehicle in motion and utilized the Open-XC library

- Awarded The Chrysler “Connected Car” award, Best Societal Hack, and Farm Log’s “Best use of Mobile Sensor Data” at MHacks IV

High School Robotics | Grand Blanc High School (FRC) #2337 **September 2010 - May 2013**

- Participated in the First Robotics Competition, a challenge in which high school students take six weeks to design large robots to compete in challenges.
- Implemented PID motor control algorithms to optimally set the speed of a wheel on a frisbee shooting mechanism and best maintain its RPM.

Experience

Tech Team | MHacks CORE **April 2015 - Ongoing**

- Collaborated with the MHacks team to host Mhacks 6, one of the largest and most prestigious collegial hackathons.
- Developed for technical team, planning and creating the applications and more for future event.

Michigan Hackers CORE **September 2014 - Ongoing**

- Contributing to the organization responsible for curating and fostering the hacker community at UofM
- Raised awareness of other collegial hackathons to the student body as well as organized transportation.
- Given responsibilities over various applications and projects as well as the role of mentoring younger programmers

Mentor | First Robotics Competition Team **October 2014 - May 2015**

- Mentored High School aged children in the FRC program described earlier
- Taught younger members basic programming concepts in java
- Guided students as they attempted to design and program a 5 foot tall robot in only 6 weeks.

Web Developer | MSU College of Natural Science **October 2013 - May 2014**

- Migrated the Natural Science departmental website from WordPress to a new site based on the Mura CMS
- Authored web content in HTML/CSS and Javascript for the site

Programming Languages

Proficiency : C++, Java, Android, Python, HTML, CSS **Familiar: Labview, Visual basic, Matlab**