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Rajiv V. Mantena

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Projects

Predicting an airlines stock price based on on-time performance December '16

- worked on the project to understand if there was any hidden trend relating an Airline's stock prices to its on-time performance. Considered real on-time performance data and stock trend data of American Airlines over a period of 13 months.
- Trained several Machine Learning classifiers like Random Forests, Support Vector Machines, etc. to predict stock prices of future and were able to predict if there would be an increase or decrease in Stock Prices with 75% accuracy. We consider this is non-trivial gain in accuracy as there happens to be no direct correlation between on-time performance data and stock trends. [eng.utah.edu/∼mantena/ml/final_report_ml.pdf]

Experience

Graduate Teaching Assistant University of Utah
Salt Lake City, UT August 2015 - May 2016

- Served as Teaching Assistant for Mechatronics I and II courses. Assisted 12 undergraduate students in Lab activities and held the responsibility of grading over 140 students.

Assistant Systems Engineer Tata Consultancy Services Limited
Hyderabad, India January 2014 - July 2015

- Served as a Application Support Engineer for various Web-applications of a Belgian telecom provider, Proximus. These applications receive over 1M user requests a day.
- Responsibilities include Shell scripting to optimize monitoring of Application Servers, performing *jar* deployments on hosts, CPU usage monitoring, Incident Management, etc.
- Supported the IT infrastructure during Change Request cycles, provided on-call support to ensure efficient Disaster Recovery and Troubleshooting of Application/Infrastructure issues in Production environment.

Undergraduate Research Intern Centre for Artificial Intelligence and Robotics
Bengaluru, India May 2012 - July 2012

- Studied the development of a Tree Climbing Robot, which had been developed for use military surveillance. Performance of the robot was improved by reducing the redundant electronic hardware and therefore obtaining a much more energy efficient robot.

Education

Master in Robotics CGPA : 3.23 August '15 - May '17
College of Engineering University of Utah Salt Lake City, UT
Coursework : Robotics Artificial Intelligence Machine Learning Computer Vision Haptics Control theory : Classical, State Space and Robot Control

Bachelors in Mechatronics Aggregate : 66.26% August '09 - May '13
Jawaharlal Nehru Technological University Hyderabad, India
Emphasis : Robotics, Programming, Mechanics, Microcontrollers & Embedded applications

Skills

Programming : C++, Python, Shell, UNIX, PL/SQL, Arduino
Engineering : MATLAB & Simulink, Solidworks, AutoCAD, Box2D
Other : HTML, CSS, PHP, LaTeX, Microsoft Office
Languages : Telugu (Native), English, Hindi

Honors

- Awarded **Star of the Quarter** by *Tata Consultancy Services* in Q1 of 2015
- Awarded the **Best All Rounder** of the graduating batch of 2007 by my High School