

AJAY SAIKRISHNA DEVARASETTY

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EDUCATION:

New York University, New York, NY

09/15-05/17

Master of Science, Computer Engineering

(GPA : 3.1/4.0)

Courses: Data Structures and Algorithms, Machine Learning, Foundations of Data Sciences, Big Data Analytics, Data Center and Cloud Computing, Probability and Stochastic Processes, Digital Signal Processing, Business Analytics, Network Security, Software Engineering, Computer Architecture, Internet Architecture and Protocols

EdX, Microsoft Data Science Curriculum

09/16-10/16

Courses: Data Science Orientation (Microsoft), Querying with Transact SQL (Microsoft)

Analysing and Visualising Data with Power BI (Microsoft)

Indian Institute of Technology (IIT) Bhubaneswar, Bhubaneswar, India

07/11-05/15

Bachelor of Technology, Electrical Engineering

(GPA : 4.0/4.0)

SKILLS:

Programming

: R , Python, C/C++, MySQL,TSQL

Big Data Ecosystems

: Hadoop, MapReduce, Apache Pig, Apache Spark, AWS, H2O, KNIME

Operating Systems

: Windows, Linux

Web Development

: HTML, JavaScript

Software

: Tableau, Google Analytics, PowerBI, MATLAB

Statistical Packages

: NumPy, Matplotlib, Pyplot, ggplot, XML

EXPERIENCE:

Web Applications Engineer Intern, Technical Consulting & Research, Inc., Weston, Connecticut

05/16-present

- Analysed the data collected (visits, page views, exits) from the Google Analytics using Python and Power BI
- Deployed the MS SQL Server and automate the process of storing the website traffic.
- Reporting to CEO and the business development team about the performance of the website and recommending the necessary changes (Search Engine Optimisation)

Exam Proctor, New York University, New York

03/16-05/16

- My role includes conducting and proctoring the exams for the students

Research Assistant, Beijing Jiaotong University, Beijing, China

05/14-07/14

- Implemented Principal Component Analysis on SAR Images
- Assisted 2 PhD students and 1 Graduate student in conducting their research
- Rewrote the script in 2 journal papers and 1 research paper

PROJECTS:

- Wrote code to simulate a branch predictor and achieved 100% success rate on 500 branch predictions in C++ 10/16-11/16
- Implemented a two level cache simulator in C++ and achieved 100% success rate (predicted correctly on 45000 addresses in cache memory) 9/16-10/16
- Decision Tree Analysis on Yelp Data Set to find the factors responsible for the Customer Satisfaction Rating on 89000 reviews and 133 Food Services. Accuracy of 0.6 achieved and Take out is the deciding factor. 04/16-05/16
- Visualised a social network on 100 users and followers to find the node distribution in Twitter using R 03/16-04/16
- Forecasting based on ARIMA Model (Box - Jenkins Approach) on Johnson and Jonhson quarterly earnings per share data (21 years) in R 03/16-04/16
- Pattern Finding using KNN Classifier on 150 different glass data sets having 11 attributes classifying into 5 different types 03/16-04/16
- Performed Regression on Property Sales Data (23750 data sets with 20 attributes) in New York City to find the factors responsible for the Price in R 02/16-03/16
- Exploratory Data Analysis on Google Flu Query Search data (over 12 years), population (50 states) and latitude data of different countries to find the relation between them 02/16-03/16

Performance Analysis of Full Duplex Communication Systems

08/14-0/15

- Found the expression for Interference Cancellation Ratio in terms of power and distance for two antenna system using MATLAB
- Extended the expression to MIMO System with Number of Antennas in addition

Script Analysis using Gabor Filters

04/13-07/13

- Analysed the script in Indian Bilingual Documents with Gabor Filter Algorithm using MATLAB

Recognition of Persons using Iris Patterns

07/12-12/12

- Presented a Seminar on the project Recognition of persons by Iris Patterns using MATLAB

ACTIVITIES:

Vice Chairman, IEEE IIT Bhubaneswar Student Chapter, Bhubaneswar, India

08/14-05/15

- Maintained the IEEE IIT Bhubaneswar Student Chapter Website and facebook page of the chapter for the academic year 2014-15.

Secretary, IEEE IIT Bhubaneswar Student Chapter, Bhubaneswar, India

08/13-05/14

- Increased the participation to 16 teams in IEEE Xtreme 7.0 with extensive publicity and motivating the students by explaining the importance of certification and experience they get

ADDITIONAL INFORMATION:

Awards: (1) All India Rank 299 in IEEE Xtreme 7.0

(2) Scholarship of \$10000 per year, New York University