Department has organized a 3 day's workshop on "Internet of Things" in association with Orange Research Labs from 6thSeptember, 2017 to 8thSeptember, 2017. In this workshop 100, 2nd year students have participated and learn the IOT Technology effectively.

IOT Hackathon by Orange Research labs

Department has organized a 1-day hackathon on "Internet of Things" in association with Orange ResearchLabs on 9th September, 2017. In this hackathon nearly 20 teams of 100, 2nd year students have participated and developed a 20 IOT applications within the given time. And the jury team evaluated that all the 20 applications and announced the top 5 applications. And all the 5 teams are awarded with prizes.

Top 5 teams are mentioned below.

Team 1: Innovative Preventer.

Team 2: Smart Lock.

Team 3: Smart Parking.

Team 4: Child Analyzer.

Team 5: Animal Protector.

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Mr. M.Mallikharjuna Rao
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Ms. J.Sudeepthi

MESSAGE FROM HEAD OF THE DEPARTMENT

Amazon Machine Learning:

After getting to know your data through data summaries and visualizations, you might want to transform your variables further to make them more meaningful. This is known as feature processing. For example, say you have a variable that captures the date and time at which an event occurred. This date and time will never occur again and hence won't be useful to predict your target. However, if this variable is transformed into features that represent the hour of the day, the day of the week, and the month, these variables could be useful to learn if the event tends to happen at a particular hour, weekday, or month. Such feature processing to form more generalizable data points to learn from can provide significant improvements to the predictive models.

Other examples of common feature processing:

- Replacing missing or invalid data with more meaningful values (e.g., if you know that a missing value for a product type variable actually means it is a book, you can then replace all missing values in the product type with the value for book). A common strategy used to impute missing values is to replace missing values with the mean or median value. It is important to understand your data before choosing a strategy for replacing missing values.
- Forming Cartesian products of one variable with another. For example, if you have two variables, such as population density (urban, suburban, rural) and state (Washington, Oregon, California), there might be useful information in the features formed by a Cartesian product of these two variables resulting in features (urban_Washington, suburban_Washington, rural_Washington, urban_Oregon, suburban_Oregon, rural_Oregon, urban_California, suburban_California, rural_California).
- Domain-specific features (e.g., you have length, breadth, and height as separate variables; you can create a new volume feature to be a product of these three variables).
- Variable-specific features. Some variable types such as text features, features that capture the structure of a web page, or the structure of a sentence have generic ways of processing that help extract structure and context. For example, forming n-grams from text "the fox jumped over the fence" can be represented with unigrams: the, fox, jumped, over, fence or bigrams: the fox, fox jumped, jumped over, over the, the fence.

Including more relevant features helps to improve prediction power. Clearly, it is not always possible to know the features with "signal" or predictive influence in advance. So it is good to include all features that can potentially be related to the target label and let the model training algorithm pick the features with the strongest correlations. In Amazon ML, feature processing can be specified in the recipe when creating a model. See the Developer Guide for a list of available feature processors.

Prof. R.Ramesh

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Staff Achievements:

- ❖ Dr.M.S.S.Sai presented a paper "A Rate capacity aware approach to maximize the lifetime of wireless sensor network" in ICNFESMH-2017 on 3rd Sep,2017.
- ❖ Mr.A.VeeraRaghava Rao Poster accepted for Indian international science festival 2017 . Topic is "Smart Water Management System"
- ❖ Mr.G.Dileep Kumar Poster accepted for Indian international science festival 2017 . Topic is "Smart Car Engine Control System"
- ❖ Congratulations to Mr.A.VeeraRaghava Rao has successfully completed the NPTEL Certification on "Introduction to R software".
- ❖ Mrs.G.Anupama and Mrs.V.N.V.Swathi has successfully completed the NPTEL Certification on "Introduction to Programming in C"
- ❖ Prof.R.Ramesh , Mr.A. VeeraRaghavaRao,Mr.G.Dileep Kumar, Mr.B.Adinarayana Reddy ,Ms.Ch.Susmitha and Mrs.G.Hemalatha are attended a two-week FDP on "Foundation Program In ICT Education" at RVR&JC College Of Engineering in association with IIT-Bombay from 16th To 17th September,2017.

Events:

Guest Lecture on "Programming Skills (C, C++, C#)"

Department has organized a Guest Lecture on "Programming Skills (C,C++,C#)" by Mannamsriram, sr. Development Analysis Engineer, Citrix R & D indiapvt ltd, india on 23rd September,2017. In this lecture all the 2nd year students have participated and know the importance of programming. The resource person discussed about effective programming skills in efficient manner and students also interacted.

Guest Lecture on "DBA Technologies and career progression"

Department has organized a Guest Lecture on "DBA Technologies and career progression" by Mr. Potluri Sunil Kumar on 1st September, 2017. In this guest lecture final year students has participated and know the importance of DBA technologies and market openings in the field of DBA Technology.

IOT Work shop by Orange Research labs