



BITS 'N' BYTES

PARVATIBAI CHOWGULE COLLEGE OF ARTS
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OF COMPUTER SCIENCE | Volume 11 ISSUE II

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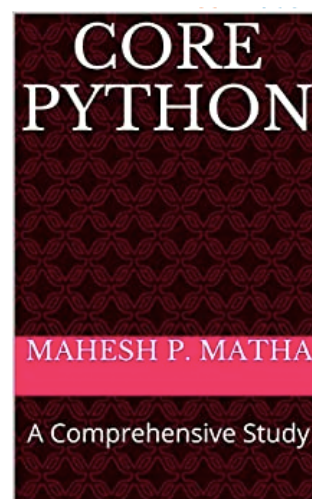
Editorial

Welcome to issue II of Bits 'n' Bytes for the academic year 2020-2021. In this issue we bring to you all the events held in department of Computer Science from September 2020- January 2021.

In this issue we bring to you the students and faculty achievements and participations in various activities. We hope this issue will help you keep connected with the department.

Ms. Dikshita Vishram Aroskar,
Assistant Professor.

Faculty Achievement



Mr. Mahesh P. Matha, Assistant Professor, M.Sc (IT), authored a book titled "**Core Python - A Comprehensive Study**". It is available worldwide exclusively on Amazon Kindle store from 24th November, 2020. It is an introductory book on the Python programming language.

Mr. Abhishek Gudekar cleared UGC NTA NET in Computer Science in November 2020". He had previously cleared UGC NET in Computer Science in November 2017.

Faculty Participation

Dr.(Ms). Sameena Falleiro, participated in following webinars:

ACM India Webinar Series on Education: "*Preparing for a Career in IT*" by Prof.Pankaj Jalote on 19/09/2020.

Webinar session on "*Muscle Relaxation and Guided Imagery*" by Ms.Vanora LObo of Find your peace on 19/09/2020.

Webinar on "*NAAC Assessment and Accreditation Process*" organised by IQAC of Goa University on 21/09/2020.

Mathematics webinar on the topic "*Aspects of Effective Math Education*", "*Pedagogical Content Knowledge*" organized by the Mathematics pedagogy unit of St. Xavier's Institute of Education on 26th September, 2020.

Dr.(Ms). Sameena Falleiro, participated in the Mathematics webinar on the topic "*Discovering Aesthetics in Mathematics*" organised by the Mathematics pedagogy unit of St. Xavier's Institute of Education on 31st October, 2020.

Ms. Suchitra Bhat, Associate Professor attended Webinar: Criteria 3 of NBA Accreditation-PO-CO Attainment Computation on 25th November 2020.

Ms. Ashweta Fondekar, Assistant Professor attended Faculty Development Program (FDP) on Innovation, Creativity & Startups conducted by the Goa State Innovation Council on 19th, 20th, 26th and 27th November, 2020.

Mr. Abhishek Gudekar - Assistant Professor, attended ACM Compute 2020 conference organized by ACM India at Visvesvaraya National Institute of Technology Nagpur, Maharashtra, India from December 09th to 12th 2020.

Mr.Abhishek Gudekar - Assistant Professor, attended first Indian Symposium on "*Machine Learning (IndoML)*" from 16th -18th December 2020 organized by IIT Gandhinagar and IIT Kharagpur.



Talk on Career Planning

‘Department of Computer Science organized a talk on **“PLANNING A CAREER AS AN I.T. GRADUATE”** on 10th Oct 2020 at 10.45 am.

The speaker was our very own Alumni of Chowgule College, Mr. Aditya Rane. Mr. Rane is currently working at Texas Instruments Pvt. Ltd, Bangalore as Systems Administrator. **Mr. Castor Godinho** was the moderator for the talk.

Aditya spoke on how to find your interest in the field of computer science and how to pursue it to make it into a successful career. 72 participants from B.Sc Computer Science, B.Voc Software Development, M.Sc I.T attended the talk. The talk concluded with the speaker and the moderator having a discussion on all the questions that were submitted by the participants.

Department Activities

Department organized an Induction program for F.Y.B.Sc. students on 4th September 2020. About 30 students attended the program via Google meet. **Ms. Suchitra Bhat**, Associate Professor, gave a brief introduction about the department, faculty of the department, course structure of B.Sc. Comp Sc., various extracurricular activities carried out.

Mr. D. Prabakaran, Associate Professor, explained to students about the examination system.

Orientation program for PGDCA students was organized on 15th September 2020 via Google meet. **Mrs. Suchitra Bhat**, Associate Professor, gave a brief introduction about the department, faculty of the department, program structure of PGDCA, various extracurricular activities carried out.

Project Orientation programme for T.Y.B.Sc students was conducted on 26th September 2020. Mrs. Suchitra Bhat, Associate Professor was the resource person for the same.



Ms. Shaikh Mehak Arif
Topper MSc (IT)



Mr. Chaitanya Dessai
Topper PGDCA



Ms. Manisha Solanki
Topper BVoc(SD)



Ms. Varadi Sangeeta
Topper BSc(Comp. Sci.)

Sentiment Analysis

Emotions, beliefs, sentiments and attitudes play a very important role in human life. We are often fascinated by what others feel about a particular entity. Sentiment Analysis which is also defined as opinion mining or review mining is a dynamic area of study which deals with emotions, sentiments, behaviors or attitudes expressed by the speaker towards a particular entity. Sentiment Analysis has gained tonnes of importance in recent years due to the important role that it plays. The scope is not only limited to the domain of Computer Science but also heavily applied in other domains like business, politics, management etc.

This article discusses two levels of Sentiment analysis and its applications namely : Sentence Level and Aspect Level. In Sentence level Sentiment Analysis the focus is on individual sentence. Each feedback is examined and the polarity for each sentence in the review is found. Polarity simply means finding the frequency of positive and negative words in the sentence. Here the aim is to identify views expressed in each individual sentence of the opinion. For example “This is the best phone I have ever used. The camera is awesome, Sound quality is too good but only bad part is the display.” Here we can see that the user has given the reviews consisting of various positive and negative words. First polarity of the sentiment would be found by counting all positive and negative keywords. In this case the count of positive keywords is three that is best, awesome, too good and the count of negative words is one that is bad. Since the count of positive keywords are more than negative this sentiment will be classified as Positive review.

In Aspect level Sentiment Analysis the focus is on a particular dimension or feature of the entity. The aim

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here is to find what exactly the user likes and what exactly is being disliked. Here the stress is on identifying what is the speakers attitude regarding a particular feature and not the entity as a whole. All the sentiments are analyzed and sentiments that talk about particular feature is considered. For example “This is the best phone I have ever used. The camera is awesome, Sound quality is too good but only bad part is the display.” Here we can see the user has expressed positive review about the camera and sound quality but the only feature he complained about is the display. This information can be used in improving the product by identifying which feature needs improvement.

Now, let us talk about some applications of Sentiment Analysis. Sentiment analysis can be applied on product reviews collected from online platforms like reviews on e - commerce sites, tweets, feedback and comments. Algorithms are applied to the data collected to classify them as positive or negative reviews. Important information can be obtained on which feature requires improvement using aspect level Sentiment Analysis. Social media monitoring can also be done using this information to see what people talk about your product on Social media, Customer support, Brand monitoring, Market research of competitors product and Product analysis.

Since Sentiment analysis has so many benefits for companies and it also plays an important role for individuals as we often seek information on what other people feel about particular product this area of Natural Language Processing has a lot of scope for future study.

Ms. Dikshita Vishram Aroskar

