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MKSSS's
Cummins
College of Engineering
For Women

MKSSS'S CUMMINS COLLEGE OF ENGINEERING , PUNE

DIG IT

DECEMBER 2018

Contents

Message from HOD

A warm welcome to all the students of the department after Semester I examination followed by vacation. Hope you all are geared up to learn new subjects. Hope you have started planning for excelling in 'Damini' and 'Gandhar'. All the best ! Show your talents !

- Dr. Anagha Kulkarni

From the editor's desk

Mr. Warren Bennis rightly said that " Leadership is the capacity to translate vision into reality." Confidence, hardwork and the passion to drive a change is all that it needs to transform followers to leaders. So hoping that we Cummins girls will be path breaking leaders of the future who will leave their mark on the Global IT Industry. As the next edition of DIG - IT is put in print, we are extremely grateful to creative minds to pen their thoughts and allow us to Spotlight this edition of DIG - IT.

- Editors,
Shivani Mithapelli
Shivani Bollabattin
(B.Tech IT)

Experience at Citi Bridge Program

This year selection of students for this program was based on a pen-paper test. When I got to know that I have cleared the entrance and I am selected, my happiness had no boundaries! As a student, it was top-notch opportunity to explore how the corporate world actually is. Initially, there was a 5-day training for the selected students at Citi. In these 5 days, I realized that things which we study and what actually gets applied in real world are very different. All the major concepts of database, networks and operating systems were brushed up. Not only technical skills but also soft skills were developed here. There were lectures by some prominent stake holders of Citi based on communication and presentation skills along with personality development. We learnt about banking, stock markets, finance and different technologies used in this sector. Apart from this, we were exposed to different tools and flexible technologies required for software development which we used for developing our project. All the mentors were encouraging us to learn and have fun at the same time. The people at Citi are very enthusiastic and helped us in learning and innovating things simultaneously.

The project has given us a lot of knowledge and has helped us knowing how team work effectively leads to success. It was amazing working with the team and mentors and exploring things and learning them considering the deadlines. This opportunity has helped me build my network with my seniors and other people at Citi. The most important is my experience, which has helped me in choosing right field to study and grow in my career. This program helped us identify our interests and passion. It is an excellent initiative taken by the college in association with Citi which gives us an edge over others.

- **Pratiksha Baviskar**
(B.Tech IT)

Report on Ubiquitous computing FDP

A one week National Level Faculty Development program was conducted by IT department from 10 to 14th December 2018. The FDP was sponsored by IIITDM, Jabalpur. It was under an initiative of Ministry of Electronics and Information Technology, Government of India. Around 30 faculties have participated in the program. The resource persons were from various industries and academia. Full-fledged hands on sessions on ubiquitous computing were conducted in the FDP. The FDP got grant of around Rs. 1.24 lacs from IIITDM, Jabalpur. Faculty form IT department Dr. Dipti Patil and Mr. Praful Meshram also served as Resource person in the FDP.

- Dr. Dipti Patil
Associate Professor,
MKSSS's Cummins College
of Engineering for women

Internship Report on ‘Statistical Social Network Analysis for Behavioral Research’

I have always been fascinated by the ability of humans to create machines that act and think like them. It truly reflects how far we have come in the technological sector. This curiosity led me to explore further in the field of Computational Neuroscience and develop an interest in it. Computational neuroscience is an interdisciplinary field which deals with various computational tools in analyzing how the brain functions. I had the privilege of working in this futuristic field and experience the innovation firsthand.

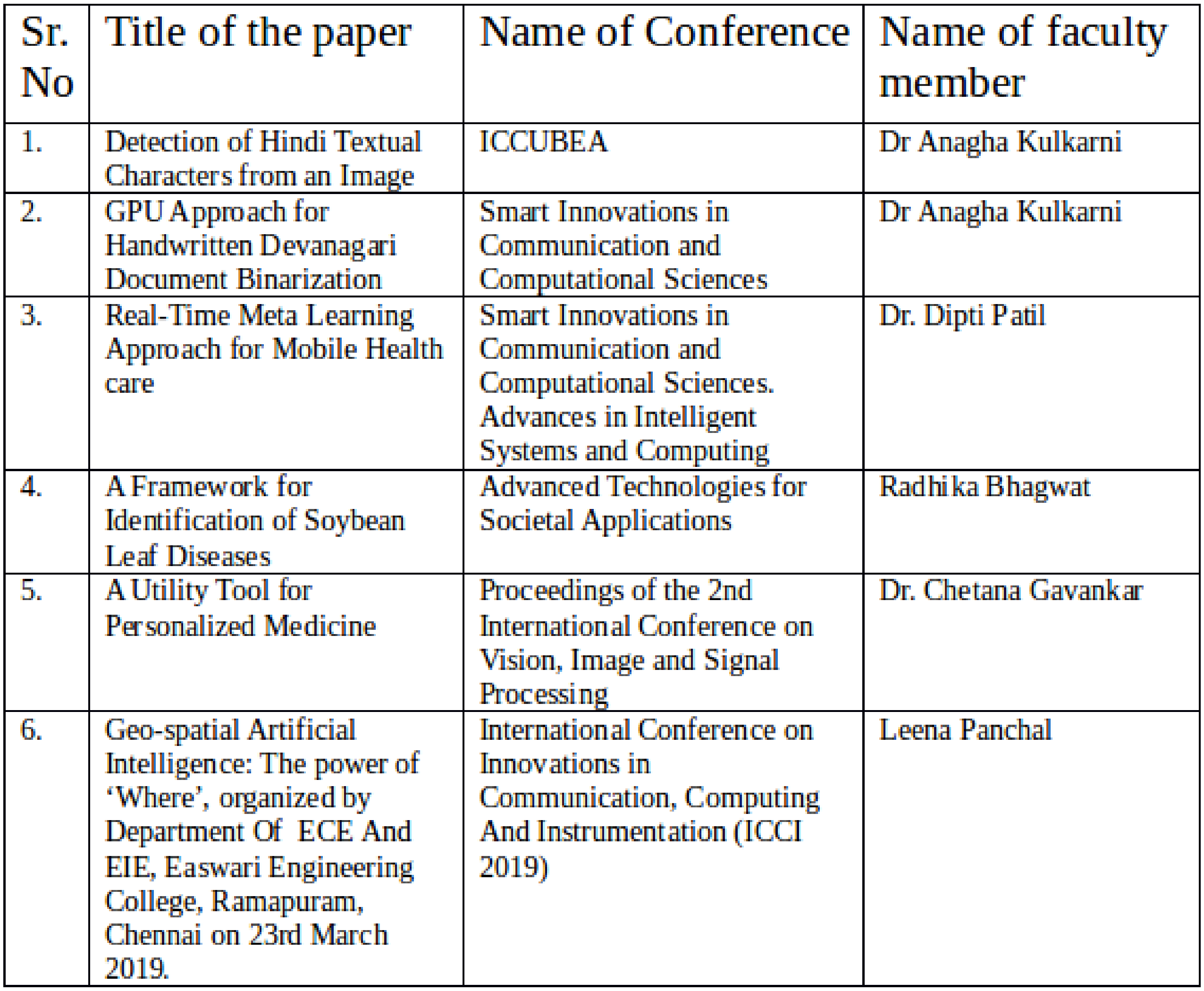
When I received a full scholarship from iSURE (International Student Undergraduate Research Experience) for two months of summer research internship in June 2019, I knew this was going to be a crucial milestone in my life. I got the opportunity to be a research intern at the University of Notre Dame, Indiana USA for a total of 8 weeks. I worked under the able guidance of Dr. Johnny Zhang on the topic, ‘Statistical Social Network Analysis for Behavioral Research’ in the Lab for Big Data Methodology in the Department of Psychology. My knowledge of deep learning proved to be useful in understanding the various principles of quantitative psychology. Psychologists are ever interested to find whether friends and couples share similar personalities or not, what drives them to develop a relationship with each other. However, no statistical models are readily available to analyse the correlation between the personalities of individual and their relationships with other people. The main objective of the project was to develop a network model that maps these behavioural traits to a mathematical equation so as to analyse the personality traits of an individual. I used computer clusters for large scale data analysis and conducted statistical data analysis using R. Furthermore, I conducted simulation studies to evaluate the performance of Bayesian and Frequentist methods for estimation social network models. Such a study is useful to predict whether that individual is more likely to smoke or consume alcohol. This analysis helps in predicting the behavior of individuals which is widely used in forensic analysis of criminals, academic research as well as in insurance companies, to name a few.

This internship proved to be an extremely rewarding experience in terms of technical as well of social and soft skills. This approach to research is something that I hadn’t done before and it was incredibly valuable to get hands on experience in the field before applying to grad school. Travelling to a country 9000 miles away from home independently, learning about the culture, food habits, living conditions etc. made me a more woke individual. I had the opportunity to interact with various international scholars, professors and fellow research interns and learn about their extraordinary journeys. I also featured in an article on the international site of the University of Notre Dame which was a major confidence booster for me. This internship became all the more memorable because I made some really special friends who made me feel connected to the University and to a new country.
Michael Pippenger, the vice president and associate provost for internationalization at Notre Dame International, hopes to continue the relationship with our college, Cummins College of Engineering for Women and encourage even more students to apply to the iSURE program in 2020.

- **Shivani Kamtikar**
(Btech IT)

Faculty Achievements

Conference Papers Published 2018-19



Sr. No	Title of the paper	Name of Conference	Name of faculty member
1.	Detection of Hindi Textual Characters from an Image	ICCUBEA	Dr Anagha Kulkarni
2.	GPU Approach for Handwritten Devanagari Document Binarization	Smart Innovations in Communication and Computational Sciences	Dr Anagha Kulkarni
3.	Real-Time Meta Learning Approach for Mobile Health care	Smart Innovations in Communication and Computational Sciences. Advances in Intelligent Systems and Computing	Dr. Dipti Patil
4.	A Framework for Identification of Soybean Leaf Diseases	Advanced Technologies for Societal Applications	Radhika Bhagwat
5.	A Utility Tool for Personalized Medicine	Proceedings of the 2nd International Conference on Vision, Image and Signal Processing	Dr. Chetana Gavankar
6.	Geo-spatial Artificial Intelligence: The power of 'Where', organized by Department Of ECE And EIE, Easwari Engineering College, Ramapuram, Chennai on 23rd March 2019.	International Conference on Innovations in Communication, Computing And Instrumentation (ICCI 2019)	Leena Panchal

Placements 2018-2019

STUDENT NAME	COMPANY	PACKAGE
K BHUVANESHWARI IYER	MICROSOFT	39 L
YASHI GUPTA	WALMART	18.75 L
HARDE ARTI	WALMART	18.75 L
TANIYA BHOSALE	CITI Corp(PPO)	13.5 L
TANVI KALE	CITI Corp(PPO)	13.5 L
SNEHAL WASWANI	CITI Corp(PPO)	13.5 L
SHAFA HASSAN	CITI Corp	13.5 L
K BHUVANESHWARI IYER	CITI Corp	13.5 L
SNEHAL PENDHARKAR	CITI Corp	13.5 L
CHAVAN ANINDITA	CITI Corp	13.5 L
PURVA AGARWAL	CISCO	13 L
ASMITA TRIPATHI	AVAYA	12 L
KAJAL KUMARI	DEUTSCHE	11.75 L
ASHWINI PAMPATWAR	UNION BANK OF SWITZERLAND	11.75 L
ADITI GOYAL	DEUTSCHE	11.75 L

Department Toppers

Class	Name of Student	CGPA
S.Y B.Tech	NAMITA SANTOSH MUTHA	9.26
T.Y B.Tech	SHRISTI JALAN	9.16
T.Y B.Tech	NISHI BOTHRA	9.16
B.E	BHUVANESHWARI KUMAR IYER	9.67