



This report has been submitted by the BITS Pilani-Rajasthan ACM Student Chapter to be considered in the category **Outstanding Community Service Award** at ACM Student Chapter Excellence Awards.

**Submitted by**

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BITS ACM Pilani Chapter is the largest technical association and the most active student body in BITS Pilani, Pilani Campus.

The Chapter has 653 active members.

The Chapter has 1108 original members.

Website: [www.bitsacm.acm.org](http://www.bitsacm.acm.org)





Below is the detailed explanation of the various community services conducted by the chapter.

The BITS PILANI chapter of the Association for Computing Machinery understands the significance of computing education in today's era of technology. Thus our schemes focus on spreading this knowledge not just among ourselves, but also to the youth and children who will shape the future.

● **On Campus:**

As because we recruit a certain number of people every year, there are a lot who are not, but are interested in learning as well as working. We encourage all the people who are willing to learn and take initiatives to spread knowledge and exchange ideas. To fulfil these, we conduct workshops, invite guest lecturers and organize competitions.

● **BKBIET:**

Not all institutes are able to provide proper environment and setup for computing enthusiasts.

Similar, was the case with B K Birla Institute of Engineering and Technology (BKBIET) where we

helped them install the required setup and encouraged the students to learn.

Further, a workshop on Machine Learning and Data Mining was conducted by the chapter in January 2015 at BK Birla Institute of Engineering & Technology. A large number of enthusiastic

students turned up for the workshop and were curious to explore in these fields.

● **Balika Vidyapeeth:**

Several seminars were conducted in Birla Balika Vidyapeeth, a High-School for girls inside the BITS campus where we focused on the importance and potential of Computers and Internet in

today's world.

Girls were motivated to explore their interests and many ACM members volunteered to support them in their venture.

● **Apps:**

In the last few months, we've worked upon projects which aim to provide solutions to social and environmental problems.

● **Emergency Responder:**

It is one such project prototype which aims to reduce the high response time during an





emergency situation. All a victim needs to do is to trigger the app on his/her phone and his/her

location will be sent to the server. The nearest responders will be sent this location where they can reach to help in time.

● **Automated Psychiatrist:**

It is another innovative idea to convert our mobile phones into a psychiatrist. It will ask a questionnaire and supplement it with data already known through our app usage. This data set

is analyzed using sentiment analysis and natural language processing. Further, we intend to put

an Artificial Neural Network classifier to this system.

● **Analysis of Social media buzz about Political Leaders:**

The opinion of public expressed on social media is of great importance to political leaders to understand the views and needs of the citizens. This data was extracted using Facebook Graph

API and Twitter REST API. Then various machine learning techniques like Sentiment analysis were applied to this and the results were generated in the form of graphs.

● **Project Funds**

Every year BITS Pilani organizes a technical fest 'APOGEE' in which students are invited to pitch

in their ideas for projects and then work on them. Our chapter realizes that not everyone has appropriate funds and resources and thus we offer to help such aspirants by providing them with appropriate funds and guidance.

**This submission has been truncated to fit the 500 word limit.**

