



CSE students complete internship at Bennett University

As many as 19 students from the CSE Dept have successfully completed the online internship on “AI & Deep Learning” offered by leadingindia.ai at Bennett University. It was a six weeks intensive internship work from 11 May to 19 June 2020. Initially the students were offered a three-day workshop on “AI & Deep Learning”. After the training, the participants were grouped with each group having 4 – 5 members from different colleges of all over India to work on a deep learning project under the guidance of assigned mentors. A panel of four evaluators including the mentor assessed the performance of each group and the completion of the project during the last week of the internship. The certificate of internship completion was awarded to the students who have successfully completed their projects. The students who secured above 70% were refunded with the amount that was collected from them at

the time of registration. As many as 19 out of the 25 registered students from Vidya have successfully carried out their projects and obtained the internship completion certificates.

**List of projects completed by the students as part of the
internship**

Sl. No	Name of the Student	Semester & Batch	Project Title
1	Narayanan T	S2 MTech CSE	Eagles Eye on Cybercrime Detection
2	Sreema E R	S2 MTech CSE	Technical Analysis for Stock based prediction.
3	Gokul Venugopal	S6 CSE A	HD image degeneration-detection of covid using x-ray images
4	Abhishek Sathish	S6 CSE A	Deng AI : Predicting Disease Spread
5	Jayaraj N J	S6 CSE B	Investigation of effective objective function for multilevel thresholding of gray level images
6	Kavyavrindha K B	S6 CSE B	Firearm Detection from Surveillance Cameras Using Deep Learning Techniques
7	Khadhija Mohamad Haneefa	S6 CSE B	Speech Emotion Recognition
8	Krishnaja R Nair	S6 CSE B	Fake News Analysis Modelling
9	Liya Derby	S6 CSE B	Bundle Branch Block Detection using Statistical Features of QRS-complex and k-Nearest Neighbors.
10	Mohammed Ameen Abdu Rasheed	S6 CSE B	Prediction of dynamic cloud resources providing for work flow
11	Niranjan Krishnan	S6 CSE B	Classification of hyperspectral images
12	Nived Narayanan	S6 CSE B	Air pollution prediction Seoul
13	Sneha Joju	S6 CSE B	An Automated Recognition System of Sign Language for Static Signs using Deep Learning
14	Lakshmi Thirtha Rajan	S6 CSE B	Person identification in outdoor surveillance video using deep learning technique.
15	Varsha Shaju	S4 CSE B	Epileptic seizure Detection using Deep learning algorithms
16	Sruthi I R	S4 CSE B	Traffic Sign Detection and Classification
17	Liyana Faisel	S4 CSE B	Sentiment analysis using memes
18	Vishnupriya P S	S4 CSE B	House Prices: Advanced Regression Techniques
19	Simna Asharf	S4 CSE B	Social media news generation

What the participants say

SREEMA E.R
S2 MTECH CSE

“The stock market is a device for transferring money from the impatient to the patient.”

– Warren Buffett

It is really intriguing to learn how the stock market works and how investment strategies are built. Thanks to Leading India AI and CSE Bennett University, India, I could get a good understanding of the same.

During this ‘Virtual Summer Internship’, me and my teammates worked on the project entitled ‘Technical Analysis for Stock based Prediction’, under the guidance and support of Dr. Tanveer Ahmed. It was truly a remarkable experience. We studied the data of Nifty 50 stocks for the year 2019; made use of numerous technical indicators to help us get even more precise predictions; trained and tested 6 regression based models to generate our predictions for the next closing price of our stock.

The ensemble models used among the 6 (Random Forest Regressor and Gradient Boosting Regressor) proved to outperform the others for more than 85% of the stocks in the dataset.

Lastly, my heartfelt thanks to Dr. Deepak Garg, the Director of Leading India for providing us this opportunity Dr. Ramani Bai V, Head of Vidya Centre for AI Research (VCAIR) for motivating and insisting me to undergo leadingindia.ai internship.

**KHADIJA MOHMAD
HANEefa
BTECH CSE S6**

During the 6-weeks as an intern for a Deep Learning Project at Bennett University, as part of the Summer Internship associated with leadingindia.ai, I gathered valuable experience virtually at the comfort of my home workspace.

Under the guidance of Ms. Shivani Goel, my teammates and I worked on Emotion Recognition using speech signals. It was exciting to work in a field where research has been going on for two decades, especially as it has promisingly great applications with Artificial Intelligence leading progress in this world. We trained speech datasets to detect the emotions portrayed through our voice while speaking. It was an exceptional opportunity to learn about and develop a system that can detect the same with a precision up to 86% using a convolution neural network.

This internship proved to be a splendid initiative by Leading India and I feel thankful to all our professors who helped us through this journey.

VARSHA SHAJU
S4 CSE B

The EEG signals are used to record the brain activity of a human being. In our project we used the EEG signals for the detection of epilepsy. Thanks to Leading India AI and CSE Bennett University, for providing such an opportunity to us. During this 'Virtual Summer Internship', me and my teammates worked on the project entitled 'Epileptic seizure detection using deep learning algorithms", under the guidance and support of Ms. Divya Acharya. It was truly a remarkable experience for me and my friends. Using EEG signals we could detect whether a person is epileptic or not. For this we used deep learning algorithms such as CNN and LSTM for the implementation of our model and acquired an accuracy above 90 for both the models. And I was also able to complete this internship by scoring 82%. Lastly, my heartfelt thanks to Dr. Deepak Garg, the Director of Leading India for providing us this opportunity and Dr. Ramani Bai V, Head of Vidya Centre for AI Research (VCAIR) for facilitating us to acquire this internship experience.