

**Brief Details of the Approved Projects on
'Cyber Crime Prevention Against Women and Children'**

SI No.	Name of the Institutions with Name /Contact No. of Principal Project Investigator	Technical contents	Total Financial Estimates	Duration of the proposed project
1	IIIT Design and manufacturing Kancheepuram Dr. V. Masilamani Principal Investigator Mob. 9840260783 Email: masila@iiitdm.ac.in	<p><u>Title of the Project: Detection and Prevention of Forged Obscene Images/Videos in the Social Network using Machine Learning</u></p> <ul style="list-style-type: none"> • To design a module for forgery detection and pornographic content detection • Using CNN to meet both the objectives. • Image forgery detection in the social networking database. Design will be based on transfer learning techniques • Designing strong algorithms to detect audio, video and obscene content detection. 	Rs 48.96 lakhs	20 Months
2	IIIT, Allahabad Prof. P. Nagabhushan Principal Investigator Represented by Dr. Mohmmad Javed Mob. 9554651551 Email: pnagabhushan@iiita.ac.in	<p><u>Title of the Project: A web browser based intelligent kernel tool for automatic detection and blocking of obscene image and video contents in real time</u></p> <ul style="list-style-type: none"> • Project aims in developing a light weight web browser based tool to automatically detect the presence of obscene contents in websites and also monitor uploading and downloading of such contents in real time using deep learning architecture. • Designing a strong Obscene Content Detection Algorithm (OCDA) and operations thereof. 	Rs. 38.30 lakhs	24 Months

3	<p>NIT, Meghalaya Dr. Bunil Kumar Balabantaray Principal Investigator Mob. 9485185916 Email: bunil@nitm.ac.in</p>	<p><u>Title of the Project:</u> Design of and Development of Intelligent Algorithms for Analysis and Detection of Obscene content and forgery in the images available in Social Media platform</p> <ul style="list-style-type: none"> • To verify integrity of images and detecting traces of tampering without requiring extra prior knowledge • Distinguishing authentic photographs with the forged / tampered ones • Feature detection by skin colour and texture • To identify location of digital forgery by auto regressive co-efficient method using feature vector detection • 	Rs. 21.89 lakhs	23 Months
4	<p>IIT Jodhpur Dr. Mayank Vatsa, Principal Investigator Mob. 9654653404 Email: mvatsa@iitj.ac.in</p>	<p><u>Title of the Project:</u> A Social Media Engine for Discovering Doctoring in Obscene Multimedia</p> <ul style="list-style-type: none"> • Data base collection for both doctored and original videos from the internet containing obscene and adult content • Designing algorithms for audio and image doctoring detection that will assist in detection of Audio, Video/ Multimedia and Image detection of such obscenity. • Social Media analytics to understand cause of spreading vulgar doctored image of videos and predict the effect of such contents. 	Rs. 197.28 lakhs	20 Months
5	<p>IIT Patna Dr. Sriparna Saha Principal Investigator Mob.8809559190 Dr. Asif Ekbal, Associate Professor, CSE Presenter Mob. 9819708718</p>	<p><u>Title of the Project:</u> IIT Patna centre of Excellence in Cyber Crime Prevention against Women & children</p> <ul style="list-style-type: none"> • Text Analytics and Machine Learning (including Deep) techniques to develop detection of fraud, obscene post, forged images, video contents, cyber bully as well as spreading 	Rs. 284.69 lakhs	32 Months

	Email: director@iitp.ac.in	<p>awareness.</p> <ul style="list-style-type: none"> • User behaviour and Sentiment & Emotional Analysis tools • System for automated help and counselling services to sex abuse victims • Employ deep learning CNN based method to detect almost all kinds of tampering on Images. 		
6	<p>NIT Calicut Dr. S.D. Madhukumar Principal Investigator Mob. 9447353393 Email: madhu@nitc.ac.in</p>	<p><u>Title of the Project:</u> Proactive Monitoring of online Social Network for Prevention of Crime against Women & Children (PMOPCWC)</p> <ul style="list-style-type: none"> • Identifying fake profiles in social network using graphs theoretic approach • Random scanning of suspicious network accounts and proactively flag them as dangerous • Developing profiles of such objectionable sites including matching of photo and profile information to categorize them as fake profiles • Identification of fake profiles in OSN • Deep fake detection for identifying fraudulent videos with the help of machine learning techniques called generative adversarial network (GAN). AI techniques are employed to identify fake images. 	Rs. 50 lakhs	32 Months