Himanshu Panwar

Senior Undergraduate, IIIT Bhopal Department of Information Technology

EDUCATION

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Indian Institute of Information Technology Bachelors of Technology in Information Technology(IT); GPA: 8.85	Bhopal, India Aug. 2018 – May 2022
WORK EXPERIENCE	
 Machine Learning Intern <i>Prof. Nilay Khare (HOD Computer Science, MANIT Bhopal)</i> Developed data privacy algorithm for large datasets. Implemented Cluster-based approach for finding the correlation between the dataset. Developed Algorithms in Python using Pyspark for managing 1.5Million rows of data. 	May 21 – Present
 Artificial Neural Network Intern TantraByte Pvt. Ltd. Designed a Social distancing web app implemented on a deep learning-based approach for observing social distance. Solved the problem using the State-of-the-art framework YOLO instead of Mask-RCNN works well in real life scenario Improve the speed 3FPS to 40 FPS for real-life live video surveillance camera using State-of-the-art framework YOLO 	
 The front-end uses HTML, Javascript, CSS, while the back-end is based on Tensorflow, Flask using python deployed Software Development Intern Prof. Gaurav Gupta (Scientist 'E' at MeitY) <u>GM-LHCT</u> helps collate the sequence of events between two individuals and provide their location history in JSON for The developed tool can assist a digital forensic investigator in the Reconstruction of events. The authorization of the victim's and culprit's location based on their reported statements predicts the crime pattern. 	<i>Oct. 19 – Jan. 20</i> mat using <mark>Takeout</mark> .
 The front-end uses Tkinter, while the back-end is based on MySQL in Python, Google map API, and executable file a Sourceforge. ACADEMIC PROJECTS 	wailable at
OCR Text Recognition Web Application	Mar. 21 – Apr. 21
 Designed a web application to detect boxes and recognize English text from each box using a deep neural network. Designed a pipeline using a CRAFT pre-trained model for text detection and an RCNN model for recognizing text from The front-end uses HTML, Javascript, CSS, while the back-end is based on Flask and PyTorch framework using pyth 	ion.
• The developed project was deployed on a google cloud platform and AWS EC2 instance (<u>https://imagetotext-3140</u>	
Invoice-Digitization	Feb. 20 – Mar. 20
Calculated the total earnings of Bojack's restaurant using invoice digitization.	
• Extracted text data from an image/pdf of an invoice using digital image processing and the deep learning model .	
• All the useful data was extracted from the photo-filled data into a structured layout after scanning the image.	M 00 4 00
Face and Emotion detection on live video	Mar. 20 – Apr. 20
 The face detection and Emotion detection of tom and jerry in the video dataset. Colsulated the agreen time of both TOM and JERRY. 	
 Calculated the screen time of both TOM and JERRY. The training set accuracy is 100% and the validation set accuracy is 20% using the deep learning model VCC 16. 	
• The training set accuracy is 100% , and the validation set accuracy is 89% using the deep learning model VGG-16 . TECHNICAL SKILLS	
• Programming Languages- C, C++, Python3.	
• Web Development- HTML, CSS, PHP, MySQL, Bootstrap (Intermediate).	
 Machine Learning frameworks- Scikit-Learn, Keras, Tensorflow, Pandas, Numpy, Matplotlib, OpenC Relevant coursework- Data Structures and Algorithms, DBMS, Operating System, IoT, Artificial Intelligen Learning(Andrew Ng), Deep Learning, Computer Vision, Natural Language Processing. 	
PUBLICATION	
 "IMPLICATIONS OF GOOGLE MAP LOCATION HISTORY ARTIFACTS ON DIGITAL FORENSIC INVESTIGATION" (IFIP WG11.9 2020: Sixteenth Annual IFIP WG 11.9 International Conference on Digital Forensics). POSITION OF RESPONSIBILITY 	Jan. 2020
Training and Placements cell member at IIIT Bhopal.	May 21 - Present
 Presented a research paper at the International Conference on Digital Forensics. 	Jan. 2020
• Core team member of Robotics club at IIIT Bhopal.	Jan. 19 – Jun. 19
Secured 1st rank in B. Tech Second year.	
 <u>HackerEarth</u>: Secured 35 rank in Machine Learning competition. <u>Codechef</u>: 4-Star competitive coder. 	

• <u>Codechef</u>: 140 Rank June long challenge.