

Himanka Kalita

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PhD Researcher Short CV

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EDUCATION

Doctor of Philosophy <i>Applied Electronics</i> Università degli Studi Roma Tre	Nov. 2017 – Mar. 2021 Rome, Italy
Master of Technology <i>Information Technology</i> North Eastern Regional Institute of Science and Technology	Jul. 2013 – Jun. 2015 Nirjuli, India
Bachelor of Technology <i>Computer Science and Engineering</i> Assam Don Bosco University	Jul. 2009 – Jun. 2013 Guwahati, India

WORK EXPERIENCE

Erasmus+ UI/UX Research Intern Time Village	Jul. 2020 – Feb. 2021 Stockholm, Sweden
Early Stage Researcher for ENCASE (EU H2020 Project) Signal Generix	Jul. 2019 – Aug. 2019 Limassol, Cyprus
Early Stage Researcher for ENCASE (EU H2020 Project) Telefonica I+D	Sep. 2018 – Dec. 2018 Barcelona, Spain
Early Stage Researcher for ENCASE (EU H2020 Project) CyRIC	May 2018 – Aug. 2018 Nicosia, Cyprus
Administration Assistant Indian Institute of Technology Guwahati	Mar. 2017 – Nov. 2017 Guwahati, India
Computer Science Teacher Kendriya Vidyalaya IIT Guwahati	Mar. 2016 – Mar. 2017 Guwahati, India
Developer Summer Intern Indian Oil Corporation Limited	Jun. 2012 – Jul. 2012 Guwahati, India

PROJECTS AND RESEARCH

Deep Learning for Biometric Recognition in Mobile Devices in Python Università degli Studi Roma Tre	2019 – 2022
UI/UX Erasmus+ Research Project in HTML5, CSS3, JavaScript, and Ember.js Time Village	2020 – 2021
Biometric Recognition in Handheld Devices using GMM in Python Università degli Studi Roma Tre	2019 – 2020
Classification of online social network (OSN) activity using CNN in Python¹ Signal Generix	2019 – 2019
Study and classification of EEG brainwave using CNN in Python Telefonica I+D	2018 – 2018
Development/integration of NLP module for filtering sensitive text content in Python¹ CyRIC	2018 – 2018
Virtual Labs Integration Project Phase 2 using HTML5, CSS3, JavaScript, and C++ Indian Institute of Technology Guwahati	2017 – 2017
Reversible Secret Image Sharing in MATLAB, Master's thesis project North Eastern Regional Institute of Science and Technology	2014 – 2015
Android based GSM Home Security System in JAVA/C++, Bachelor's thesis project Assam Don Bosco University	2012 – 2013
IPv4/v6 Network Subnet calculator in JAVA, Bachelor's internship project Assam Don Bosco University	2012 – 2012

¹Modules of ENCASE project

PUBLICATIONS

- [1] H. Kalita, E. Maiorana, and P. Campisi. “Keystroke Dynamics for Biometric Recognition in Handheld Devices”. In: *2020 43rd International Conference on Telecommunications and Signal Processing (TSP)*. Paper [link](#). 2020, pp. 410–416. DOI: [10.1109/TSP49548.2020.9163524](https://doi.org/10.1109/TSP49548.2020.9163524).
- [2] H. Kalita, M.M. Singh, and T. Tuithung. “A Reversible Secret Image Sharing Scheme in Matrix Projection Using Discrete Haar Wavelet Transform”. In: *2015 National Conference on Computing, Communication and Information Processing (NCCCIP)*. Paper [link](#). 2015, pp. 105–111.
- [3] E. Maiorana, H. Kalita, and P. Campisi. “Deepkey: Keystroke Dynamics and CNN for Biometric Recognition on Mobile Devices”. In: *2019 8th European Workshop on Visual Information Processing (EUVIP)*. Paper [link](#). 2019, pp. 181–186. DOI: [10.1109/EUVIP47703.2019.8946206](https://doi.org/10.1109/EUVIP47703.2019.8946206).
- [4] Emanuele Maiorana, Himanka Kalita, and Patrizio Campisi. “Mobile keystroke dynamics for biometric recognition: An overview”. In: *IET Biometrics* 10.1 (2021). Paper [link](#), pp. 1–23. DOI: <https://doi.org/10.1049/bme2.12003>.
- [5] R. K. Sharma et al. “Android interface based GSM home security system”. In: *2014 International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT)*. Paper [link](#). 2014, pp. 196–201. DOI: [10.1109/ICICT.2014.6781278](https://doi.org/10.1109/ICICT.2014.6781278).

SKILLS

Operating System: Windows, Linux

Human Languages: Assamese (Native), Hindi (B2), English (C2), Italian (A1)

Programming Languages: Python, Kotlin, C, C++, MATLAB, Java

Scientific IDE: PyCharm, Jupyter Notebooks, VS Code, Android Studio, MATLAB, Anaconda, IntelliJ Idea

Web Technologies: HTML5, CSS3, JavaScript, JSON, RESTful APIs

Database: MySQL, Firebase for Android, MongoDB

Document Creation: LaTeX, Microsoft Office Suite

Machine/Deep Learning Frameworks: SciKitLearn, CUDA, Tensorflow, PyTorch, Keras

REFERENCES

References available upon request.