

Md Shahriar Shakir Sumit

Educational Qualification

- May 2023–Present **Doctor of Philosophy - Computer Vision.**
Department of Electrical Engineering, School of Engineering and Information Technology, The University of New South Wales, Canberra, Australia.
- Oct 2018–2021 **Master by Research - Object Detection.**
High Performance Computing Centre (HPCC), Department of Computer and Information Sciences, Universiti Teknologi PETRONAS, Malaysia.
- 2011–2015 **Bachelor of Science - Computer Science and Software Engineering.**
American International University-Bangladesh, Dhaka, Bangladesh.
CGPA - 3.45/4

Work Experiences

- Apr 2022 – March 2023 **Research Assistant, Volunteer.**
American International University-Bangladesh (AIUB).
Project: Building convolutional neural network to realize high accuracy real-time detection for human detection.
- Oct 2018 – 2021 **Graduate Assistant.**
Universiti Teknologi PETRONAS, Malaysia.
Project: Human Detection Using Convolutional Neural Network
- May 2020 – Sep 2021 **Tutor -TEB2173: IT Professional & Ethics.**
Department of Computer and Information Sciences, Universiti Teknologi PETRONAS, Malaysia.
- May 2021 **Tutor -TEB3233: Computer Ethics & Cyber Law.**
Department of Computer and Information Sciences, Universiti Teknologi PETRONAS, Malaysia.
- Jan – Sep 2019 **Tutor -TEB1153: Fundamental of Information System.**
Department of Computer and Information Sciences, Universiti Teknologi PETRONAS, Malaysia.
- Oct 2016 – Oct 2017 **Software Engineer**, Unico Solution, Mohammadpur, Dhaka, Bangladesh.
- Jun 2016–Sep 2016 **Software Engineer**, Unifox Digital Media, Banani, Dhaka, Bangladesh.
- Sep 2015–May 2016 **Junior Software Analyst**, Synergy Force, Uttara, Dhaka, Bangladesh.

Awards & Recognition

- 2021 Awarded ***the meritorious master research scholar in 2021*** at the Department of Computer and Information Sciences in Universiti Teknologi PETRONAS (UTP).
- 2020–2021 **Graduate Research Assistant** under **Yayasan UTP Grant** at Universiti Teknologi Petronas, Perak, Malaysia.
- 2018–2020 **Graduate Assistant** under **Centre for Graduate Studies** at Universiti Teknologi Petronas, Perak, Malaysia.
- 2007 Awarded **Secondary School Certificate Scholarship** under Comilla Education Board, Bangladesh.
- 2004 Awarded **Junior School Certificate Scholarship** under Chittagong Region, Bangladesh.

Technical Skills

Prog. Languages Python (TensorFlow, Keras), Java, C, C++, .NET
Web Technologies HTML 5, CSS3, Javascript, jQuery, Bootstrap, PHP
Database SQL, MySQL, MySQLi
Writing Tool LaTeX, Microsoft Word

Research Areas & Interests

Computer vision, Image Processing, Data Science, Cyber Security, Human-Computer Interaction, User Interface, Psychology, Virtual reality, Software Engineering

Publications

- Journals 1.** **Sumit, Shahriar Shakir**, Rambli, Dayang Rohaya Awang, Mirjalili, Seyedali, Ejaz, Muammad Mudassir and Miah, M. Saef Ullah; " ReSTiNet: On Improving the Performance of Tiny-YOLO based CNN Architecture for Applications in Human Detection", *Applied Sciences* vol. 12, no. 18 , MDPI, 2022 (ISI & Scopus Indexed, Q2, IF= 2.838).
- Journals 2.** **Sumit, Shahriar Shakir**, Dayang Rohaya Awang Rambli, and Seyedali Mirjalili; " Vision-based human detection techniques: A descriptive review", *IEEE Access*, vol. 9, pp. 42724–42761, IEEE, 2021 (ISI & Scopus Indexed, Q1, IF= 3.476).
- Journals 3.** **Sumit, Shahriar Shakir**, Rambli, Dayang Rohaya Awang, Mirjalili, Seyedali, Ejaz, Muammad Mudassir and Miah, M. Saef Ullah; "An Efficient Deep Learning Approach based on ReSTiNet to Improve The Accuracy of Human Detection", *MethodsX*, Elsevier, 2022 (ISI & Scopus Indexed, Q2, CiteScore=2.8).
- Journals 4.** **Sumit, Shahriar Shakir**, Junzo Watada, Anurava Roy, and DRA Rambli; " In object detection deep learning methods, yolo shows supremum to mask r-cnn", *Journal of Physics: Conference Series*, vol. 1529, pp. 042086, IOP Publishing, 2020 (Scopus Indexed, Q3).
- Journals 5.** **Sumit, Shahriar Shakir**, Rambli, Dayang Rohaya Awang; " Imputation method for clinical missing values: A Comparison", *AIUB Journal of Science and Engineering (AJSE)*, 2023 (Scopus Indexed, Q4, Under Review)
- Book Chapter 1.** **Sumit, Shahriar Shakir**, Junzo Watada, Fatema Nasrin, Nafiz Ishtiaque Ahmed, and DRA Rambli; "Imputing missing values: reinforcement bayesian regression and random forest", *Soft Computing for Biomedical Applications and Related Topics*, pp. 81–88. Springer, 2021 (Scopus Indexed, Q4).

Scientific Index

Google Scholar **Total Citations: 69, h-index: 4, i10-index: 2.**

<https://scholar.google.com/citations?user=YMW6mx8AAAAJ&hl=en>

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Referees

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