



## MD FOYSAL AHMED

**Passport:** EL0046318 **Nationality:** Bangladeshi **Date of birth:** 04/12/1998

**Place of birth:** Gazipur, Bangladesh **Gender:** Male **Phone number:** (+880) 1835085533

**Email address:** [foysal.dali.fd@hotmail.com](mailto:foysal.dali.fd@hotmail.com)

**Website:** <https://orcid.org/0000-0002-5933-8968>

**Home:** Kamarjuri, National University, Gazipur Sadar, Gazipur, 1704 Gazipur (Bangladesh)

### EDUCATION AND TRAINING

#### Master of Engineering (Software Engineering)

*Southwest University of Science and Technology* [ 2023 – 2025 ]

City: Mianyang | Country: China | Final grade: 88.60% | Level in EQF: EQF level 7 | Thesis: Design and Implementations of Human Activity Recognition System Based on Hybrid Model

#### Bachelor of Engineering (Computer Science and Technology)

*Southwest University of Science and Technology* [ 2019 – 2023 ]

City: Mianyang | Country: China | Final grade: 87.05% | Level in EQF: EQF level 6 | Thesis: A Research on YOLOv7-Based Multiple Surgical Tool Localization and Detection in Laparoscopic Videos

#### Chinese Language

*Sichuan University of Culture and Arts* [ 2019 ]

City: Mianyang | Country: China

#### Higher Secondary Certificate (HSC) (Science)

*Milestone College* [ 2015 – 2017 ]

City: Uttara Model Town | Country: Bangladesh | Final grade: 5.00 (A+)

#### Secondary School Certificate (SSC) (Science)

*Kamarjuri Yousuf Ali High School* [ 2013 – 2015 ]

City: Gazipur | Country: Bangladesh | Final grade: 5.00 (Golden A+)

### WORK EXPERIENCE

**Mianyang Xiangshu Electronic Technology Co., LTD** – Mianyang, China

City: Mianyang | Country: China

#### Internship

[ 2022 – 2023 ]

E-commerce data analysis

Train AI models and understand company patterns

Provide practical IT support to the company

**Lab of Neural Network and Image Processing** – Mianyang, China

City: Mianyang | Country: China

#### Research engineer

[ 2023 – 2025 ]

### LANGUAGE SKILLS

**Mother tongue(s):** Bengali

**Other language(s):** English | Chinese

## SKILLS

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Artificial Intelligence / Problem Solving / Research / Communication / Python3 / Deep Learning / Machine Learning / Scikit-Learn / PyTorch / Flask & Streamlit

## PUBLICATIONS

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[2025]

**Multi-task model with attribute-specific heads for person re-identification**

Journal Name: Pattern Analysis and Applications | Publisher: Springer Nature

[2024]

**TriFusion hybrid model for human activity recognition**

Journal Name: Signal Image and Video Processing | Publisher: Springer Nature

[2023]

**YOLOv7-Based Multiple Surgical Tool Localization and Detection in Laparoscopic Videos**

Journal Name: IFMBE APCMBE 2023 | Publisher: Springer Nature

[2023]

**A Real-Time Laparoscopic Surgical Instrument Detection System Based on YOLOv5**

Journal Name: CISP-BMEI 2023 | Publisher: IEEE

[2021]

**Novel Closed-Form Expressions for Ergodic Capacity of MIMO Ad-Hoc Networks**

Journal Name: EITCE 2021 | Publisher: ACM

## PROJECTS

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[ 2023 – 2025 ]

**Human Activity Recognition System Design and Implementations**

[ 2022 – 2023 ]

**Laparoscopic Surgical Instrument Detection System**

## HONOURS AND AWARDS

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[ 2019 ] Southwest University of Science and Technology

**1st Price of SWUST 2019**

[ 2023 ] Southwest University of Science and Technology

**1st Price of SWUST 2023**

[ 2023 ] Southwest University of Science and Technology

**Sichuan Provincial Government Scholarship 2023**

[ 2024 ]

**3rd Price in 4th Sichuan Province University Students Biomedical Engineering Innovation Design Competition in 2024**

## RECOMMENDATIONS

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Name: **Dr. He Gang**

B.Eng and M.Eng Research Supervisor

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Name: **Dr. Wang Song**

Masters Data Visualization Course Instructor

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