

Souvick Chakraborty

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EDUCATION

Oct 2024 – Present
Kiel, Schleswig Holstein,
Germany

Christian-Albrechts-Universität zu Kiel (Kiel University),
Master's Degree, Electrical and Information Engineering
Relevant Course Work: Pattern Recognition and Machine Learning, Advanced Digital Signal Processing, Essential Numerical Methods, Information and Coding Theory

July 2015 – July 2019
Kolkata, West Bengal, India

Maulana Abul Kalam Azad University of Technology,
Bachelor of Technology, Applied Electronics and Instrumentation Engineering
Relevant Course Work: Digital Signal Processing, Control Systems, Sensors and Transducers, Soft Computing, Numerical & Statistical Methods, Biomedical Instrumentation

EXPERIENCE

June 2022 – April 2024
Pune, Maharashtra, India

AICT Engineering Pvt. Ltd.
Senior Engineer, Control and Statistics

- Designed and optimized real-time control systems and interlocks for complex automation (HVAC), integrating programmable controllers and human-machine interfaces
- Successfully orchestrated the delivery of 30+ projects in FY-2023, maintaining a flawless track record with zero quality issues
- Developed a *linear regression-based model* to optimize continuous control of temperature, humidity, and energy efficiency during unoccupied hours for the Rockefeller Center, NY—one of the most critical projects for operational sustainability and energy conservation

Aug 2019 – May 2022
Pune, Maharashtra, India

Johnson Controls
Senior Design Engineer, Control and Analytics

- Spearheaded the successful execution of a pilot project on-site at *Jio World Center* in Mumbai, a flagship portfolio for the India division
- Developed tools that increased system productivity through data-driven insights and analysis during the Financial Year 2021

TECHNICAL SKILLS

- Hardware:** Arduino, Controller Commissioning, Control Programming, Sensor and Valve selection, PCB Design
- Software:** Simulink, AUTOCAD, LaTeX, Power BI, Octave, Git
- Frameworks:** TensorFlow, Keras, PyTorch, Scikit-learn, XGBoost, NumPy, Pandas, Matplotlib, Seaborn, SciPy, SymPy
- Web Development:** HTML
- Programming Languages:** Python, MATLAB, C, C++

ACHIEVEMENTS

Oct 2023

Recognized as the top performer in Q3 FY-2023 for delivering outstanding results on a critical project for a major client at AICT Engineering Pvt. Ltd.

Mar 2019

Secured All India Rank 732 in Graduate Aptitude Test in Engineering (GATE) Examination

TALKS AND PRESENTATIONS

Jan 2025

Kiel University

Pattern Recognition Techniques in Brain-Computer Interfaces

Student talk on the “*Pattern Recognition and Machine Learning*” Course ([Link](#))

POSITIONS OF RESPONSIBILITY

Aug 2022 – April 2024

Organizing Member of Cultural and Sporting Events at AICT Engineering Pvt. Ltd.

July 2021 – May 2022

Founding member of *Kaizen* Initiative in Johnson Controls

INDUSTRIAL INTERSHIPS

June 2018

West Bengal Power Development Corporation Limited

Dec 2017 – Jan 2018

Indian Oil Corporation Limited

EXTRA-CURRICULAR ACTIVITIES

- *Dec 2024 – Present* Running a newsletter sharing curated books, articles, research papers ([Link](#))
- *Mar 2019* Placed 2nd in Inter departmental Quiz Competition at Heritage Institute of Technology
- *Mar 2017* Placed 3rd in maze solver robotics competition with a team of 4, TECHKRITI'17 annual technical & entrepreneurial fest of *IIT Kanpur*
- *2016 – 2019* Held the position of Student Chair for the *International Society of Automation (ISA)*

LANGUAGES

- **English:** C1
- **German:** A1
- **Bengali (native):** C2
- **Hindi:** C2