# Kowshik Saha Joy

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## ABOUT ME

With a strong background in Python and machine learning, this motivated Computer Science and Engineering graduate from Central University of Science and Technology is eager to pursue an MSc in Data Science to expand expertise in predictive modeling and contribute to innovative, data-driven initiatives. Brings valuable research experience and thrives in collaborative academic environments. Combines technical proficiency with an analytical mindset, backed by three years of professional experience as a Web Developer at DevOne Web Agency.

## WORK EXPERIENCE

### Web Developer

**Devone Web Agency** [ 2 Jan 2022 – 23 Mar 2025 ]

**City:** Khulna | **Country:** Bangladesh | **Website:** https://devone.digital/

- Meeting with clients to discuss website design and function.
- Creating the website architecture.
- Generating and Customizing WordPress themes and plugins.
- Conducting website performance tests and Troubleshooting content issues.

### Data Analyst

**Data Solution - 360** [10 March 2024 – 2 September 2024]

**City:** Dhaka | **Country:** Bangladesh

- Using data mining to extract information from data sets and identify correlations and patterns
- Using data to predict trends in the customer base and the consumer population as a whole
- Performing statistical analysis of data
- Using tools and techniques to visualize data in easy-to-understand formats, such as diagrams and graphs
- Communicating with stakeholders to understand data content and business requirements

## EDUCATION AND TRAINING

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING**
**Central University of Science and Technology** [10 Feb 2016 – 02 Aug 2022]
**City:** Dhaka | **Country:** Bangladesh
**Field(s) of Study:** C programming, Data Structures & Algorithm, Data Communication, Computer Network, Software Engineering, Artificial Intelligence, Data Mining, Object Oriented Programing, Statistics, Linear Algebra
**Final grade:** 3.54 out of 4.00 | **Level in EQF:** EQF level 6 | **Type of credits:** Bangladeshi Credit System
**Number of credits:** 162
**Thesis:** A Deep Learning Approach to Detect Sunflower Leaf Disease with XAI

## HIGHER SECONDARY CERTIFICATE EXAMINATION

**Govt. Majeed Memorial City College, Khulna** [15 Jun 2013 – 30 May 2015 ]

**City:** Khulna | **Country:** Bangladesh | **Field(s) of Study:** Science
**Final grade:** G.P.A 4.67 (Out of G.P.A 5.00)

**Major Subjects:** Physics, Chemistry, Mathematics, Biology

## LANGUAGE SKILLS

**Mother tongue(s):** Bengali

**Other language(s):** English
**LISTENING** C1  **READING** C1  **WRITING** B2  **SPEAKING** B2

**IELTS Band Score:** 6.5

## SKILLS

**Research Field Skills:**
Machine Learning, Python (NumPy, Matpotlib, Pandas, Scikit-learn, SciPy, Seaborn, Keras, PyTorch),
Image Processing, Image Analysis, Image Segmentation, Statistics.

**Web Development Skills:**
WordPress, HTML, CSS, JavaScript, MySQL, PHP
**Data Visualization Software Skills:**
Python, Google CoLab, Microsoft Excel, Microsoft Power BI

## PROJECTS

**Deep Learning Project – Handwritten Digit Recognition using Python**
The handwritten digit recognition is the ability of computers to recognize human handwritten digits. It is a hard task for the machine because handwritten digits are not perfect and can be made with many different flavors. The handwritten digit recognition is the solution to this problem which uses the image of a digit and recognizes the digit present in the image.

**Project Tasks**
- Import the Keras library and load the MNIST dataset.
- Preprocess the data to make it ready for our neural network.
- Create the CNN model which works better for the data that are represented as grid structures.
- Train the model; it takes training data, validation data, epochs and batch size.
- Evaluate the model
- Create GUI to predict digits
- Create a canvas where we can draw by capturing the mouse event and with a button.

**Drivvy - Car Buying and Leasing Website**

**Project Details**
- Included features such as Responsive design, Admin, Reviews, User Interface, Search bar, Filter, Category and Pricing for all features.
- Developed using WordPress, HTML, JavaScript, CSS.

**Project link:** https://www.drivvy.com/

## DRIVING LICENSE

**Driving License:** Motor Driving License No: KL00411474CL0001                12 Jan 2022 – 11 Jan 2032

## EXTRA CURRICULUM ACTIVITIES

### ICPC 2021

Participation in the 2021 ICPC Asia Dhaka Regional Site Online Preliminary Contest.

### Basic Photography Course

Launched by the Shahjalal University Photographers' Association, a basic photography course was introduced that covered the principles of capturing professional photos.

## RECOMMENDATIONS

**Name:**  Kazi Aklima  |  Chairman of Computer Science & Engineering, Central University of Science & Technology
Kowshik Saha Joy is one of my most admirable students. Based on my evaluation, he possesses great potential to innovate and excel in his field.
**Email:** chairman_cse@cust.edu.bd