

Ricko SHAHA

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RESEARCH INTERESTS

My interests span Artificial Intelligence, Machine Learning, and Software Systems. I am drawn to questions about how computational methods learn from data, how we assess their reliability, and how they can be used to solve practical problems.

EDUCATION

2016	Bachelor of Science - Computer Science & Engineering
- 2022	Chittagong University of Engineering & Technology, Chattogram, Bangladesh CGPA: 2.63 / 4.00
2013	Higher Secondary Certificate - Science
- 2015	Notre Dame College, Bangladesh GPA: 5.00 / 5.00

PUBLICATIONS

2021	TOS: A Relative Metric Approach for Model Selection in Machine Learning Solutions R. Shaha , D. Talukder, M. A. Iqbal and M. M. Haque. 2021 IEEE International Conference on Robotics, Automation, Artificial-Intelligence and Internet-of-Things (RAAICON), pp. 26-31, 2021. DOI: 10.1109/raaicon54709.2021.9929722
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RESEARCH EXPERIENCE

2020	Undergraduate Thesis, Chittagong University of Engineering & Technology  
- 2021	Machine learning susceptibility model over eight terrain and vegetation factors for the Rangamati Hill Tracts (a district within Chattogram division, Bangladesh), with live coordinate lookup against satellite derived elevation, served through a Flask application. Restructured with repeated stratified cross validation , TOS based model selection and a district wide susceptibility map.

HONORS & AWARDS

DEC 2016	Champion - Intra-University Line Following Robot (LFR) Competition ASRRO, Chittagong University of Engineering & Technology
2011	2nd Runner-Up - Regional Mathematical Olympiad Bangladesh Mathematical Olympiad Committee

TECHNICAL SKILLS

Machine Learning	Scikit-Learn, NumPy, Pandas, Matplotlib, Seaborn, Model Selection & Evaluation, Cross Validation, Class Imbalance, Cost-Sensitive Metrics
Statistics & Experimentation	R, MATLAB, Experimental Design, Hypothesis Testing, Significance Testing, Sample-Size Planning, Statistical Analysis
Languages	Python, JavaScript (ES6+), TypeScript, C, SQL
Frontend	React.js, HTML5/CSS3, SCSS, Shopify (Liquid), Web APIs, DOM Manipulation
Backend	Node.js, Express.js, Flask, REST APIs, Webhooks
Version Control	Git, GitHub
Web Experimentation	ABLyft, Kameleoon, VWO, Dynamic Yield, Convert, ABTasty, Varify, Intelligems
Project Management	Jira, ClickUp, Airtable
Scientific Writing	L ^A T _E X, BibTeX, Matplotlib Figure Preparation

COURSES & CERTIFICATIONS

Coursera	Deep Learning Specialization , deeplearning.ai (3 of 5 completed) Machine Learning , Stanford University Programming for Everybody Specialization , University of Michigan (3 of 5 completed)
Data Science	Data Science tracks, DataQuest, DataCamp and IBM on Coursera
Udemy	JavaScript & CSS , Maximilian Schwarzmüller
IICT, CUET	CCNA Exploration 1

GRE SCORES

Quantitative: 162 **Verbal:** 137 **Analytical Writing:** 3.0

EXPERIENCE

NOV 2022 - PRESENT	<i>EchoLogyx Ltd. - Software Engineer (CRO Developer)</i> - Designed, instrumented and analysed roughly 800 large-scale online A/B experiments on live production traffic, of which about 30% reached statistical significance. Responsible for the full experiment lifecycle: hypothesis formulation, randomisation and traffic allocation, sample-size and duration planning, guardrail metrics, and significance testing on read-out. - Built the client-side variants in vanilla JavaScript, HTML and CSS against core Web APIs, with attention to flicker-free rendering, cross-browser behaviour and performance on high-traffic pages where a slow variant is itself a confound. - Delivered experiments across five commercial platforms, ABLyft, Kameleoon, VWO, Dynamic Yield and Convert, and integrated them into Shopify storefronts through Liquid templating and the Shopify APIs. - Built internal tooling that the experimentation workflow runs on, including a Jira REST API dashboard for release cadence and developer hours, and a Python webhook service giving bi-directional Airtable to Jira synchronisation.
JAN 2025 - MAR 2025	<i>Workera - Subject Matter Expert (Contract)</i> - Subject matter expert for the Web Development Fundamentals domain on Workera's skill benchmarking platform, authoring, reviewing and refining technical assessment items covering HTML, CSS, JavaScript, DOM manipulation and responsive design. - Validated items for accuracy, clarity and discriminating power, and for alignment with industry practice, so that scores benchmark developer skill consistently across a global candidate pool.

PROJECTS

CLIENT PROJECT	<i>Workflow Metrics Dashboard, Jira REST API Integration</i> Real-time dashboard tracking experiment release frequency, development hours and team throughput. Built with React.js and Node.js/Express.js .
CLIENT PROJECT	<i>Airtable to Jira Sync Automation</i> Python service using custom webhook endpoints for bi-directional synchronisation of tasks, statuses and timelines between Airtable and Jira, removing manual entry from the experiment tracking workflow.

REFERENCES

Dr. Asaduzzaman 

Professor

Department of CSE

Chittagong University of Engineering and Technology

Ashim Dey 

Assistant Professor

Department of CSE

Chittagong University of Engineering and Technology