

# Sakib Alam

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## PROFESSIONAL SUMMARY

Highly motivated with a passion for AI/ML and its application in web development. My web development skills, enable me to create user-friendly applications for deploying AI/ML models. I'm a dedicated and collaborative individual, bringing strong leadership and communication skills to any team. As a fast learner and creative problem-solver.

## EDUCATION

### Kalinga Institute of Industrial University

*Bachelor of Technology, Computer Science Engineering - CGPA: 7.74*

Bhubaneswar, Odisha

*Sept. 2022 – June 2026*

### Indus Valley World School

*High School Diploma - CBSE: 86%*

Kolkata, West Bengal

*May 2019 – June 2021*

## EXPERIENCE

### Machine Learning Engineer | NRGTech, Odisha

Dec 2024 – Feb 2025

- Achieved more than 90% accuracy in component classification using YOLOv8 & RF-DETR
- Minimized false positives by 38% using rigorous feature engineering and hyperparameter tuning

### Research Analyst | UC Berkeley, Haas School of Business, West Bengal

June 2022 – July 2022

- Made numerous insights and inferences on 90% of scraped data, facilitating plan of action
- Finalized a presentation based on the insights and proposed scopes of change

### Data Science Intern | GlobalCERT, National University of Singapore, West Bengal

April 2022 – June 2022

- Pinpointed meaningful insights from large data and metadata sources
- Identified, analysed and interpreted trends in complex data sets

## PROJECTS

### P&ID Classifier | Python, Flask, YOLOv8, RF-DETR

Dec 2024 – Feb 2025

- YOLOv8 trained on custom dataset achieved 90% accuracy on P&ID component identification
- Supports industry standard for P&ID formats, maintains ISO markings for segregated classification

### Note Ninja | Python, Flask, OpenAI Whisper, large-bart-cnn

May 2018 – May 2020

- Can seamlessly detect audio & transcribe in real-time with over 90% accuracy, supports transcribing of audio files
- Added support for long document parsing via scalable token windowing (10k+ tokens)

## RESEARCH EXPERIENCE

### Sustainable Urban Development in Bhubaneswar's Slums

Feb 2025

*Guide: Dr. Priti Ranjan Sahoo, ICMR, KIIT University*

*Bhubaneswar, Odisha*

- Did on-field survey and research of water access for local residents, finding 34% direct water connections, 57% drainage coverage, and 35% critical sewage issues.
- Performed rigorous analysis and quality testing on water quality as supplied by Bhubaneswar Municipal Corporation, detecting arsenic, fluoride, and iron in 68% of samples.

### Application of Machine Learning in Shortlisting Resumes

June 2023

*Guide: Dr. Priti Ranjan Sahoo, ICUS, South Asian University*

*New Delhi*

- Achieved 80% accuracy, leveraging NLP, neural networks, and vectorization for automated ranking.
- Processed 5,000 resumes and multiple job descriptions, using semantic matching and to enhance candidate shortlisting.
- Trained a deep neural network in using TensorFlow, optimizing with dropout (0.4) and Adam optimizer.

PATENTS

<b>AUTOMATED RESUME SCREENING USING NLP &amp; SK-LEARN</b>	2024
<i>ID: 202431081804</i>	<i>Bhubaneswar, Odisha</i>
<b>SOLAR POWERED IOT BASED INDORE AIR QUALITY ANALYSIS</b>	2023
<i>ID: 202331028081</i>	<i>Bhubaneswar, Odisha</i>

PROFESSIONAL INVOLVEMENT

<b>Senior Marketing Executive   <i>FED(TBI), KIIT University, Odisha</i></b>	Dec 2024 – Feb 2025
<ul style="list-style-type: none"><li>• Spearheaded Marketing R&amp;D within team to introduce novel marketing and outreach strategies to facilitate an overall 40% growth in user interactions and footfall in events</li><li>• Chaired as Panelist for Start-up Showcase event with established and bootstrapped start-ups and micro-start-ups</li><li>• Organized and Coordinated venue logistics, guest facilitation, and participant registration for the society’s Flagship Event Omega attended by over 800 students and external partners and collaborators</li><li>• Organized Proof of Community Backpacking India blockchain event as part of a 12-member OC, leading to overall 20% increase in new membership sign-ups</li></ul>	

HONORS & AWARDS

<b>Finalists for COMPOSIT: Case Study Competition at IIT Kharagpur out of 400+ teams nationally</b>	2025
<b>Solo B. Tech presenter for research paper “Sustainable Urban Development in Bhubaneswar’s Slums” at ICMR 2025, KIIT University</b>	2025
<b>Finalists for Chronos V1 by AISOC, KIIT University</b>	2024
<b>Solo B. Tech presenter for research paper “Application of Machine Learning in Shortlisting Resumes” at ICUS 2023, South Asian University</b>	2023
<b>Performance pay recipient for exemplary work during internship at UC Berkeley</b>	2022
<b>Gold Medalist, International English Olympiad (SOF)</b>	2020
<b>Silver Medalist, International English Olympiad (SOF)</b>	2019

TECHNICAL SKILLS

<b>Languages:</b> Java, Python, C, MongoDB, MySQL, PostgreSQL, JavaScript, HTML/CSS
<b>Frameworks:</b> React, NextJS, Node.js, Flask, WordPress
<b>Developer Tools:</b> Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
<b>Libraries:</b> pandas, NumPy, Matplotlib, YOLOv8, Scikit-Learn