

PIJUS SAHA

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Profile

Computer Science & Engineering graduate (CGPA: 3.64) with a strong foundation in problem-solving and a growing passion for Artificial Intelligence. My background includes competitive programming in Codeforces and beecrowd, as well as competing in intra-university contests like Take-Off and Unlock the Algorithm. Currently, I am deeply focused on expanding my skills day by day in AI agents, local Retrieval-Augmented Generation (RAG) pipelines, and document intelligence (OCR). Combining my algorithmic mindset with Python and FastAPI, I am driven to bridge the gap between continuous learning and building practical, scalable backend systems for AI workflows.

Professional Experience

09/2026 – 10/2026
Chandrapur, India

Codveda Technologies , Machine Learning Intern

- Performed end-to-end data preprocessing and exploratory data analysis (EDA) to prepare structured datasets for model development.
- Applied core machine learning algorithms and evaluation techniques to solve practical predictive modeling tasks.
- Conducted model evaluation and optimization to enhance performance across diverse task datasets.

Education

2022 – 2026
Dhaka, Bangladesh

B.Sc. in Computer Science & Engineering, [Daffodil International University](#) 
CGPA: 3.64 / 4.00

2018 – 2020
Mymensingh, Bangladesh

Higher Secondary School Certificate (HSC), [Royal Media College](#) 
CGPA: 4.33/ 5.00

2013 – 2018
Tangail, Bangladesh

Secondary School Certificate (SSC), [The Hemnagar Shashi Mukhi English High School](#) 
CGPA: 4.67/5.00

Skills

Python (CS50P Certified) — Proficient

C/C++ — Proficient

Data Science — Intermediate
NumPy, Pandas.

Web development — Intermediate
HTML, CSS, JavaScript, TypeScript, Next.js, React,
Tailwind CSS, Vercel, Netlify (Deployment)

FastAPI — Intermediate

Machine Learning & Deep Learning — Intermediate
PyTorch, TensorFlow, OpenCV, CRNN, CNN, LSTM.

Git, GitHub & Workflow Automation — Intermediate

Languages

- Bangla
- English

Certifications

- [CS50P Python Certified \(HarvardX\)](#) 
- [Finalist - Takeoff Contest](#) 
- [Finalist - Unlock the Algorithm](#) 

Projects & Advancement

2025 – 2026

[AI-Powered Handwritten Prescription & Document Analysis](#)

Final Year Graduation Thesis, Daffodil International University

- **Core Stack:** Python, PyTorch, OpenCV, CRNN (CNN + LSTM), Connectionist Temporal Classification (CTC)
- Developed an end-to-end Computer Vision pipeline to transcribe complex, handwritten medical texts using a hybrid architecture of CRNN, CNN, and LSTM frameworks.
- Successfully defended the 6-credit engineering thesis, earning a perfect 4.00/4.00 grade for the presentation and defense.

08/2026 – 09/2026

[COSMOVERTEX Web Platform](#) , *Lead Developer (Freelance Client Project)*

- **Core Stack:** Next.js 16 (App Router), React 19, TypeScript, Tailwind CSS v4, Zod, React Hook Form, Resend API, Netlify
- Architected and deployed a production-ready educational consultancy platform serving 8 international destination portals with structured intake timelines and tuition matrices.
- Engineered a dual-channel CRM lead pipeline combining Resend Email API, Google Sheets webhooks, and instant WhatsApp consultation.
- Implemented accessible lightbox media galleries, type-safe form validation, automated JSON-LD schemas, and achieved a 100/100 Lighthouse SEO score.
- Live link : <https://cosmovertex.com/> 

2026 – 2026

[Professional AI Engineering & Web Development Portfolio](#) , *Personal Portfolio Website*

- **Core Stack:** Next.js 16 (App Router), React 19, TypeScript, Tailwind CSS v4, Zod, React Hook Form, Resend API, Vercel.
- Architected and deployed a fully responsive, single-page web application to showcase skills and academic milestones.
- Implemented dynamic dark/light mode theming and fluid grid typography to optimize readability for recruiters and admission committees.
- Integrated secure, serverless form handling for direct professional inquiries.
- Live link : <https://pijus-saha.vercel.app/> 

Reference

[Prof. Dr. Bimal Chandra Das](#)  , Associate Dean & Professor, Faculty of Science and Information Technology,
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[Sharun Akter Khushbu](#)  , Assistant Professor, Department of Computer Science and Engineering,
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