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EDUCATION

B.Sc. in Computer Science

American International University-
Bangladesh

Final Year (Thesis & Intern Pending)

CGPA: 3.84 / 4.00 | Major: Information
Systems | Minor: Software Engineering

Higher Secondary

Government Barishal College
2019

TECHNICAL SKILLS

DATA SCIENCE & AI

Python

Machine Learning (Scikit-Learn)

NLP (Topic Modeling/BERT/LDA)

Data Visualization (Matplotlib/Plotly)

Deep Learning (PyTorch/TensorFlow)

SQL (PostgreSQL/SQLite/MSSQL)

DATA ENGINEERING

Web Scraping (Selenium/Playwright)

Data Mining & Warehousing

LLM Integration (Gemini/RAG)

ETL Pipelines

SOFTWARE DEVELOPMENT

JavaScript / TypeScript

React.js / Next.js

Node.js / Nest.js

C# / .NET

REST API / Git

AHBAB SAKALAN

Computer Science student specializing in Information Systems with a strong academic record (CGPA 3.84/4.00). My technical foundation spans across Data Science, AI research, and Full-Stack development. I possess a unique blend of research rigor and engineering capability—demonstrated by architecting ETL pipelines for 1M+ records and conducting advanced NLP research. I am now seeking to translate these technical capabilities into actionable business insights.

RESEARCH PUBLICATIONS

ML RESEARCH PAPER (IN REVIEW)

Job Market Dynamics Analysis

Conducted a machine learning study on 5,000+ job postings using DBSCAN and K-Means clustering. Identified critical skill gaps in the local market and visualized high-dimensional data relationships using t-SNE.

NLP RESEARCH PAPER (IN REVIEW)

Scientometric Forecasting

Built an NLP pipeline processing 0.8 million research abstracts (2011-2025). Utilized BERTopic for topic modeling and Time-Series Forecasting to predict the future growth of Computer Science sub-domains.

TECHNICAL PROJECTS

DATA ENGINEERING (ETL)

Global Job Data Pipeline

Engineered a scalable scraper fetching 1M+ records from 6 countries. Features automated cleaning and daily email summaries.

GENERATIVE AI (LLM)

Smart WhatsApp Assistant

An intelligent bot powered by Google Gemini. Maintains conversation context in a database and automates replies.

FULL STACK (NEXT.JS)

AinSongjog Platform

A production-grade legal aid platform built with Next.js, Nest.js PostgreSQL and TypeORM. Demonstrates REST API architecture.

CERTIFICATIONS & LEADERSHIP

Club Member (Web Developer)

AIUB Research & Development Club | 2023

Responsive Web Design

FreeCodeCamp | 2022