Personal Data

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♂ Male

Knowledge and Skills

Python

R

Java

HTML

CSS

NumPy

Pandas

PyTorch

HuggingFace

Flair

Matplotlib

Plotly

Spring Framework

Apache Maven

MySQL

Redis

Hibernate

JUnit

Mockito

Git

Jenkins

Rundeck

Docker

Kubernetes

Grafana

Saurav Kumar Saha

Professional Experience

Student Assistant - NLP and Data Privacy Research
Cognitive Algorithms Lab, BHT 🌐

📅 December 2024 – March 2025   📍 Berlin, Germany

- Designed and implemented a **unified pseudonymization** tool for German text by using **mT5** language model
- Evaluated model performance by **benchmarking** against classical **NER** models and **LLM prompt engineering** techniques for 10K+ German email texts
- Deployed a lightweight text pseudonymization app with **REST API** (FastAPI) and **web interface** (Streamlit) on university **Kubernetes** cluster, enabling generation of 5 pseudonymized variants per user input
- Co-authored a **research paper** accepted at the First International Conference on AI in Medicine and Healthcare (AiMH 2025), focusing on **data privacy** in clinical NLP, ⭘ GitHub

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Working Student - Software Development
Solactive AG 🌐

📅 February 2020 – August 2023   📍 Berlin, Germany

- Engineered an automated financial **factsheets** generation pipeline using Python, Docker, and Rundeck — cutting delivery time by 90% from hours to minutes
- Introduced a **Dockerized** local development environment to reduce new developer onboarding time by 70%, eliminating manual setup steps
- Developed 5+ test automation **Jenkins** pipelines for automated testing, reducing manual testing efforts by around 60% across other teams with direct impact on software release cycles
- Implemented a time reset functionality for the Testsystems platform, a **microservices**-based Java application built with **Spring Boot** and **MySQL** allowing for 100+ daily test environment resets without manual intervention
- Built **Grafana** dashboards using **Flux** to monitor the performance and health of 20+ critical backend services

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Senior Software Engineer - Backend
Innovative Solutions 🌐

📅 August 2018 – August 2019   📍 Dhaka, Bangladesh

- Led development of **Freeway** project: Online **ticket reservation and purchasing system** for buses of 30+ different destinations by Shohagh Paribahan Limited, a leading bus service in Bangladesh
- Managed development of **Spring Boot** + **MySQL**-based backend services and APIs, handling full lifecycle: requirement analysis, design, implementation, testing, refactoring, and deployment to development and production environments using **Docker** and **TeamCity**

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Software Engineer
BizMotion Limited 🌐

📅 February 2013 – May 2018   📍 Dhaka, Bangladesh

- Designed and led development of the **SMC Program** project, enabling 500+ pharmaceutical sales representatives to manage surveys, stock updates, and training records via a **Spring Boot** + **PostgreSQL** backend

Languages

German ● ● ◑ ○ ○

English ● ● ● ● ◐

Bengali ● ● ● ● ●

- Engineered backend services and APIs for **BizPharma** project, a field force operations automation solution adopted by 20+ **FMCG** organizations, streamlining inventory, sales and distribution workflows
- Full-stack developer of VoIP Dialer CMS project - **Spring** framework and **PostgreSQL**-based web application for role-based access and operation management of VoIP resources

Education

M.Sc. in Data Science
Berliner Hochschule für Technik

📅 October 2019 – March 2025   📍 Berlin, Germany

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B.Sc. in Computer Science and Engineering
Shahjalal University of Science and Technology

📅 January 2008 – December 2011   📍 Sylhet, Bangladesh

Publications

[1] Saurav Kumar Saha and Felix Biessmann. "End-to-end Pseudonymization of German Texts with Deep Learning – An Empirical Comparison of Classical and Modern Approaches". In: *Proceedings of the 1st International Conference on AI in Medicine and Healthcare (AiMH' 2025)*. Ed. by Sergey Y. Yurish. Innsbruck, Austria, 8–10 April 2025. Barcelona, Spain: IFSA Publishing, S. L., 2025, pp. 98–104. ISBN: 978-84-09-71190-1. DOI: 10.13140/RG.2.2.20387.77606.