

Sthitadhee Panthadas

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Languages: English [fluent] – German [business fluent] – Bangla [native]
Residence Status: EU Blue Card

[Linkedin](#) | [Github 1](#) | [Github 2](#) | [Personal Website](#)

Software Engineer with **6 years** of international experience spanning **classical ML, deep learning, software development** across **Bangladesh & Germany**. Expert in building **end-to-end solutions** using Python, JavaScript, C/C++ & cloud tech. Currently, an **IC lead** Data scientist & a Software Engineer at AIC, advising & delivering on AI strategy & roadmap, while delivering recommendations & customer insight services via email channel marketing at scale – **10M+ customers across 50K active SKUs**.

Primary Tools: Python – Polars, Pytorch, Tensorflow, OpenCV – Javascript – Node, Vue Js, Angular, Astro – SQL, SPARQL, C++ – libtorch, Cmake, Graphics – GCloud, Claude Code

PROFESSIONAL EXPERIENCE

(Lead) Data Scientist & Software Engineer — *AIC Group, Lüneburg, DE*

August 2023 - PRESENT

- **Core** — Lead, engineer, maintain **batch** & **real-time** product **recommendations, similarity** & **complementary** models used for promotional marketing & to increase cross-sell conversion rates
- **Backend** — Optimize **10GB+ weekly throughput** of ETL processes using **SQL**, Zeppelin, **Polars** / Pandas, Pyspark, Pytorch, Tensorflow across **5+** Node.js & Java based backend **microservices**
- **GCloud** — containerize and orchestrate cloud services using **Docker, Kubernetes, Helm & Terraform**, including the implementation of **K8s** Custom Resource Definitions (CRDs) for role-based authentication for customer insight suite; also co-lead the migration of AI infrastructure from **Vertex AI** v1 to v2 APIs, ensuring seamless transition of model deployments, improving reliability
- **Data & GenAI** — Develop the architectural groundwork for **data augmentation** workflows, enriching purchase datasets to provide **model explainability**; prototype **2** GenAI **agentic workflows** using Prompt & **Context Engineering** as well as prototype a **Small Language Model** keyword extraction python flask backend
- **DevOps** — Implement **CI/CD pipelines** using GitLab CI/CD & Docker, **automating unit, integration testing** for Customer Insight suite automating deployment in prod & test environment **increasing code coverage** by **almost 15%**
- **Tech Stack:** Ecommerce Data, Python, Javascript, Gcloud (Vertex AI, Cloud Run, IAM, Firestore, PubSub), SQL, Keycloak, Java, Elasticsearch, MSSQL, Mongodb, Agentic Spec driven development (Augment Code, Claude Code, OSS tools), Excel, Superset, n8n & a lot more

Working student in IT and Business Intelligence — *Rheinhold & Mahla, Hamburg, DE*

Jan 2023 - July 2023

- Design & deploy **3** dynamic Power BI **dashboards** for revenue tracking, providing real-time financial transparency **for executive stakeholders**, & then automate ETL pipelines for balance sheet data, ensuring 100% data consistency across multiple financial sources;
- **Automate manual accounting processes** via Python, transforming a full business day of manual effort into a near-instantaneous execution
- **Tech Stack:** SQL, Financial Data, PowerBI, Excel, Power Query, Microsoft Azure

Student Research Assistant — Leuphana University Engineering Department

Jan 2023 - February 2023 and April 2023 - June 2023

- **Algorithms & Backend** — Simulate **Lost Target Search** using Modified Particle Swarm **Optimisation** achieving **100% search success** within 20 Blocks around the origin; implement **PID-based flight stability simulations** using C++, python, Javascript & Matlab
- Create python **backend** for image **classification models** with technical documentations or papers
- **Tech Stack:** Python (Flask, Django, Pytorch, OpenCV), C++, Javascript, Matlab

Software Engineer — Top of Stack Software, Dhaka, BD

July 2021 - Aug 2022

- **Frontend** — Create **15+ customised components**, along with mixins, computed & watchers for client sites & admin panels using Vue JS, Vuetify, Material CSS & so on complementing the backend development
- **Backend** — Develop backend APIs (+ **relational & non-relational data modelling**) focusing on decision making modules in the area of **banking & mortgages** using Node.js with **authorisation, authentication** for both client site & admin panel
- **Leadership** — coordinate & **lead** 2 interns and ensure implementation of clean code using **efficient** algorithms
- **Tech Stack:** Vue JS, Node JS, Python, MongoDB, Postgres, MySQL

EDUCATION

Masters in Management and Data Science — Leuphana Universität, Lüneburg, DE

October 2022 - August 2025

- **CGPA — 1.5 — sehr gut**
- **Focus:** **Deep Learning** (GAN, GNN, Transformers etc), **Classical Machine Learning**, Modelling, Algorithms & Data Structures and Management (Digitalisation, Ethics & so on)
- **Active Member of International Society:** responsible for organising cultural events & tours [May 2024 - August 2025]
- **Mainly used:** Python, C++, Matlab, Excel, SQL, SPARQL

Master's Thesis

- **Knowledge graph Question-Answer-SPARQL generation** using open source **LLMs**
- **Tech Stack:** Python, SPARQL, open source models - Qwen, Gemini, Llama family models, Knowledge Graphs

Bachelor in Engineering — University of Dhaka, Dhaka, BD

2015 - 2019

- CGPA — 1.3 (german equivalent) — *Summa Cum Laude* and **1st Position**
- **Focus:** Polymer Material Science, Quality Control, Leather Product Design & Industrial Engineering
- University of Dhaka is one of the **top 2 universities** in our country with **<3% acceptance rate**