

Nafees Mohammad Adil

M.Sc. Computer Science Graduate | Software Development | Machine Learning | Data Analysis

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Professional Summary

M.Sc. Computer Science graduate from the University of Rostock with practical experience in software development, frontend engineering, Flutter/Dart application prototyping, Python-based data analysis, machine-learning experimentation, and technical documentation. Experienced in building user-facing applications, translating domain requirements into software features, working with time-series and sensor data, and collaborating in interdisciplinary teams. Currently strengthening cloud and DevOps foundations through AWS Cloud Practitioner preparation, Docker/containerization, Infrastructure as Code, Kubernetes basics, and cloud deployment fundamentals.

Technical Skills

- **Programming:** Python, JavaScript, Dart, C++, HTML5, CSS3
- **Machine Learning and Data Analysis:** Pandas, NumPy, Matplotlib, scikit-learn, feature engineering, model evaluation, anomaly detection, time-series analysis, data visualization
- **Software and Web Development:** Vue.js, Vuetify, Flutter, Bootstrap, Shopify Liquid
- **Databases and Cloud Concepts:** InfluxDB, Firebase concepts, Firestore concepts, SQL, REST API
- **Tools and Workflow:** Git, GitHub, VS Code, LaTeX, Overleaf, documentation, issue tracking, repository management, agile collaboration
- **DevOps Foundations:** Linux, CI/CD, release preparation, application maintenance
- **Currently Learning:** AWS Cloud Practitioner, Docker, containerization, Infrastructure as Code with Terraform, Kubernetes basics, cloud deployment fundamentals

Professional Experience

Student Assistant – Machine Learning / Data Analysis	Jul 2025 – Dec 2025
<i>University of Rostock, IEF / Chair of Business Information Systems</i>	<i>Rostock, Germany</i>

- Analyzed HVAC sensor and time-series data to identify anomalies and support data-driven monitoring of building systems.
- Developed a modular Python-based anomaly-detection workflow covering preprocessing, feature extraction, model experimentation, evaluation, and documentation.
- Worked with structured time-series sensor data stored in InfluxDB and supported reproducible analysis for building-system optimization.

Working Student – Front-End Engineer	Jun 2024 – Mar 2025
<i>Universitätsmedizin Rostock</i>	<i>Rostock, Germany</i>

- Developed and maintained user-facing web interfaces with Vue.js and Vuetify for a medical education application.
- Collaborated with radiologists, medical educators, and developers to translate domain requirements into usable software features.
- Contributed to interface design, feature implementation, application maintenance, and front-end architecture documentation.

Working Student – Application Developer	Aug 2023 – Feb 2024
<i>2nd Home GmbH</i>	<i>Berlin, Germany</i>

- Maintained and improved website functionality using Shopify and Liquid, supporting product updates and operational requirements.
- Supported application-development tasks, testing activities, release preparation, and internal operational workflows.
- Gained practical experience in user-facing software maintenance, agile collaboration, and cross-functional communication.

Mathematics and Science Teacher

Pledge Harbour International School

Jan 2020 – Jun 2021

Gazipur, Bangladesh

- Taught Mathematics and Science to Grade 6–10 students in an International Baccalaureate school environment.
- Prepared classroom materials, evaluated student progress, and explained technical concepts clearly to diverse learners.

Education

M.Sc. Computer Science International

University of Rostock

Oct 2022 – Jun 2026

Rostock, Germany

- Focus areas: information systems, software development, data analysis, machine learning, and human-centered software design.
- Master's thesis: Designed and developed a persuasive and gamified mobile application prototype for improving hygiene behavior among street food vendors in Bangladesh.
- Thesis technologies and concepts: Flutter/Dart, Firebase-based system concepts, persuasive systems design, gamification, vendor scoring, task progression, and user-centered application workflow design.
- Final grade: 1.6

B.Sc. Computer Science

Independent University Bangladesh

Sep 2014 – Sep 2019

Dhaka, Bangladesh

- Focus: Management Information Systems.
- Relevant coursework: algorithms, numerical methods, programming, databases, software development, and information systems.
- Final grade: 1.9

Selected Projects and Achievements

3rd Place – BTW 2025 Data Science Challenge

Mar 2025 | Bamberg, Germany

- Predicted hourly day-ahead electricity prices for Germany using historical electricity-market data and time-series analysis.
- Performed feature engineering and model experimentation using external factors such as weather conditions and electricity import/export patterns.
- Collaborated in a four-person team under realistic competition conditions and secured 3rd place among participating university teams.

Persuasive Hygiene Application Prototype – Master's Thesis 2025 – 2026 | University of Rostock

- Designed and implemented a mobile application prototype to support hygiene behavior tracking among street food vendors.
- Built core Flutter/Dart application flows for onboarding, hygiene tasks, progress feedback, vendor scoring, profile management, and customer-facing transparency concepts.
- Structured the application around practical field constraints, including low-connectivity usage, task validation, gamification, and planned Firebase-based authentication and cloud data features.

Machine Learning Pipeline for Alzheimer's Disease Detection

Course Project | University of Rostock

- Worked on a machine-learning pipeline for analyzing brain-scan data related to Alzheimer's disease detection.
- Gained experience in data preprocessing, model training, evaluation, and the application of computational methods to medical data.

Languages

- Bengali: Native
- English: C1 / Professional proficiency
- German: B1 certified; currently attending an intensive B2 course

Additional Information

- Available for employment in Germany and open to relocation.