Sujit Debnath

A Peterstraße 36, 90478 Nürnberg 🔀 sujitdebnath.github.io

■ sujit.debnath.bd@gmail.com

2 (+49) 157 31158609

github.com/sujitdebnath

in linkedin.com/in/sujit-debnath



Education

M.Sc. in Artificial Intelligence; CGPA: 1.8 (DE)	2021 – 2025
Friedrich-Alexander-Universität Erlangen-Nürnberg – Erlangen, DE	
B.Sc. in Computer Science & Engineering; CGPA: 1.3 (DE) North South University – Dhaka, BD	2015 – 2018
Higher Secondary Certificate (Science); GPA: 1.0 (DE) Dhaka College – Dhaka, BD	2011 – 2013
Secondary School Certificate (Science); GPA: 1.0 (DE) Rampura Ekramunnesa Boys' High School – Dhaka, BD	2009 – 2011

Experience

Data Quality Manager (Working Student)

CheckMyBus GmbH - Nürnberg, DE

Oct 2024 – Present

- Ensure high data integrity via regular quality checks & CMS integration from different mobility partners.
- Support Business Operations team with data quality & administrative tasks to ensure smooth workflows.
- Monitor and analyze KPIs of various mobility partners to optimize service offerings across markets.
- Collaborate with international teams to maintain accurate, up-to-date global intercity connection data.

Data Analyst (Working Student)

BMW Group - Munich, DE

Jul 2023 - Sep 2024

- Contributed to Conformity of Production (CoP) digitization project by enhancing analytics workflows.
- Collaborated with CoP team to develop data dashboards using Oracle APEX & SQL for real-time insights.
- Aligned with stakeholders to fulfil specific data analytics needs, enabling data-driven decision-making.
- Utilized MS Excel, Oracle DB & Python to automate data pipeline, optimizing data analysis processes.

Software Engineer - Automation (Working Student)

Jul 2022 – Apr 2023

Elektrobit Automotive GmbH - Erlangen, DE

- Engaged in a significant project involving emergency update automation for Volkswagen's EV.
- Investigated automation options, and implemented Python & Bash scripts for flashing automotive ECUs.
- Utilized GitHub for version control, managed project workflows & documentation with Jira, Confluence.

Project Coordinator

Feb 2020 - Jan 2022

Robi Axiata Limited - Dhaka, BD

- Created performance reports, including pre-post KPI analysis, worse cell identification and tracking.
- Developed & optimized SQL queries to efficiently extract and analyze performance data from Oracle DB.
- Designed and implemented the MS Kaizala Message Alert system using Python, SQL, and REST APIs.

Lab Officer

Jan 2019 - Dec 2019

North South University - Dhaka, BD

• Conducted interactive lab sessions, and developed comprehensive laboratory materials & curriculum.

Under-Graduate Assistant

Jan 2019 - Apr 2019

North South University - Dhaka, BD

• Conducted tutorial sessions for students and assisted faculty members in course-related tasks.

Publications

- Bangla Short Speech Commands Recognition Using Convolutional Neural Networks, International Conference on Bangla Speech & Language Processing (ICBSLP), doi: 10.1109/ICBSLP.2018.8554395.
- Early Detection of Glaucoma Using Fuzzy Logic in Bangladesh Context, 2018 International Conference on Intelligent Systems (IS), doi: 10.1109/IS.2018.8710490.

Projects

Out-of-Distribution (OOD) Detection on Historical-WI Dataset

Oct 2024 – Present

Leading a 5-member research team conducting comprehensive evaluation of multiple OOD detection approaches (e.g., ODIN, MSP, ViM, DICE, GradNorm) using the *ScriptNet Historical-WI dataset*.

Tech Used: Python, PyTorch, Scikit-learn, Bash **6** github.com/sujitdebnath/fau-projcv-ood-detection-wi

Large-scale Differential Gene Expression Analysis in scRNA-seq Data

Oct 2023 - May 2024

Conducted comprehensive scRNA-seq analysis for type 2 Diabetes and MPN disease in case-control studies, involving data retrieval, clustering, cell annotation, DEGs identification, and a web app for visualization.

Tech Used: Python, Scanpy, Omicverse, Streamlit **9** github.com/sujitdebnath/fau-bionets-project-ws23

Advanced Computer Vision: A Five-Project Compilation

Oct 2023 - Mar 2024

Worked on an advanced Computer Vision project comprising five sub-projects, including RANSAC-based image processing, historical writer identification, and basic face recognition systems.

Tech Used: Python, OpenCV, Scikit-learn, Bash **𝚱** github.com/sujitdebnath/fau-cv-project-ws23

Impact of Weather and Climate on Bicycle Traffic in Köln

Apr 2023 – Jul 2023

Developed a data engineering and data science project to analyze weather vs. bicycle traffic relationships in Köln, involving ETL pipeline creation, system/component testing, and CI pipeline implementation.

Tech Used: Python, Bash, SQLite, GitHub Actions **@** github.com/sujitdebnath/fau-data-engineering-ss23

Skills

Programming Languages Python, Java, C++, JavaScript, SQL, Bash

ML Frameworks & Libraries NumPy, Pandas, Scikit-learn, PyTorch, OpenCV

Databases Oracle DB, MySQL, MongoDB

Dev Tools & Environments Git & GitHub, CI/CD (GitHub Actions), Docker, Linux

Productivity Tools MS Office, MT_EX

Visualization Tools Oracle Apex, Microsoft Power BI

Project Management Jira, Confluence

Achievements

- BSc Academic Distinction: Graduated with magna cum laude distinction for getting 90% marks at NSU.
- NSU Board of Trustee Scholarship: Awarded 25% tuition waiver for academic excellence in BSc.
- Golden A+: Achieved the highest GPA of 5.00/5.00 across all nine subjects in SSC exam.

Extracurricular Activities

Member, NSU Problem Solvers (NSUPS) – Dhaka, BD	2015 – 2016
Volunteer, JAAGO Foundation – Dhaka, BD	2014 - 2015
Community Volunteer, Volunteer for Bangladesh (VBD) – Dhaka, BD	2014 – 2015

Languages & Hobbies

Languages English (Proficient), Deutsch (A1), and Bengali (Native)

Hobbies Reading Books (goodreads.com/sujitdebnath), Cycling, and Cooking