

# Swarna Sarker

<https://www.linkedin.com/in/swarna-sarker/>

Email : swarnaprony81@gmail.com

Mobile : +49 (176) 46774824

## EXPERIENCE

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### • Process& GmbH

*Junior Data Scientist*

Munich, Germany

Jan. 2022 - Mar. 2022

- **Data Transformation & Modeling:** Extracted, transformed, and created a data model from purchasing organization data of clients.
- **Process Optimisation:** Created a dashboard to analyze the delay in the process due to vendor mismatch and its impact on the revenue. Reduced total throughput time for the process from 142 days to 137 days
- **Blacklisted Activity Detection:** Created a dashboard to showcase the number of cases going through blacklisted activity and determined effort per solving the blacklisted activity. Created a formula for calculating total effort for solving blacklisted activity and its impact on overall labor productivity
- **Technologies Used:** Celunis, PQL, SQL, Python

### • Lecturer of Mathematics

*Lecturer of Mathematics*

Dhaka, Bangladesh

Jan. 2017 - Sep. 2019

- **Course Work:** Created course curriculum and taught Numerical Method, Linear Algebra, Business Mathematics, Differential and Integral Calculus, Ordinary and Partial Differential Equations, Engineering Mathematics, Art of livings.
- **Grading & Counseling:** Analyzed students grades and assigned relevant counseling needs.
- **Volunteer Works:** Advised at Daffodil Nature Study Club.As an active member of Souhardo helped victims of natural disasters in remote areas of Bangladesh.

## EDUCATION

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### • Leibniz Universitt Hannover

*Master of Science in Mathematics; (Incomplete)*

Hannover, Germany

Oct. 2019 – Dec. 2021

### • University of Dhaka

*Master of Science in Applied Mathematics; CGPA 1.42 (Converted to German Grade)*

Dhaka, Bangladesh

Jan. 2015 – Mar. 2016

### • University of Dhaka

*Bachelor of Science in Mathematics; CGPA: 1.96 (Converted to German Grade)*

Dhaka, Bangladesh

Dec. 2009 – Nov. 2014

## PROJECTS

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- **Keep Notes:** An easytouse web app with an intuitive UI to keep small note with titles and dates.  
**Technologies:** ReactJS, ExpressJS, MongoDB, NodeJS. <https://github.com/swarnaprony/Keeper2>
- **Learning Log:** An web application to log the learning progress of various topics I learn from web.  
**Technologies:** Python, Django, SQLite, Html, CSS. [https://github.com/swarnaprony/online\\_learning\\_log](https://github.com/swarnaprony/online_learning_log)
- **Github Visualization:** Data Visualization of Github repositories to analyze project trends over time.  
**Technologies:** Python, Matplotlib. <https://github.com/swarnaprony/DataVisualization>
- **Domestic Flight Delay Dashboard:** Created a dashboard to visualize flight data to find insights into delay.  
**Technologies:** Python, Pandas, Dash. <https://github.com/swarnaprony/FlightsDelayDashboard>

## SKILLS

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- **Languages:** Python, Javascript, SQL
- **Frontend Technologies:** HTML, CSS, Bootstrap, ReactJS
- **Data Analysis:** Pandas, Jupyter Notebook, Scikit-Learn
- **Backend Technologies:** NodeJS, ExpressJS, Django
- **Database Tools:** MySQL, MongoDB, DB2
- **Others:** Git, Github, Watson Studio, Celunis

## COURSES & CERTIFICATIONS

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- Udemy: Full Stack Web Development Bootcamp 2022
- IBM Data Science Professional Certificate
- Coursera: Data Analysis with Python
- Coursera: Machine Learning with Python