

# Sujit Debnath

🏠 Peterstraße, 90478 Nürnberg

🌐 [sujitdebnath.github.io](https://sujitdebnath.github.io)

📺 [sujit-debnath](https://www.linkedin.com/company/sujit-debnath)

👤 [sujitdebnath](https://www.instagram.com/sujitdebnath)

✉ [sujit.debnath.bd@gmail.com](mailto:sujit.debnath.bd@gmail.com)

🐦 [SujitDeb007](https://twitter.com/SujitDeb007)

☎ +49 157 31158609

## SUMMARY

---

- **2.5+ years of extensive experience in the industry** to unravel insights from diverse fields such as telecom, health, and various data.
- **3+ years of background in data processing**, visualization, analysis, and interpretation, having completed a wide range of projects and research studies.
- **1+ years of background in academia** including conducting interactive sessions and labs.

## EDUCATION

---

**Friedrich-Alexander University Erlangen-Nuremberg** **Erlangen, Germany**  
*Master of Science in Artificial Intelligence* *2021 – Present*

- Major Modules: Artificial Intelligence I, Human Computer Interaction, Cognitive Neuroscience for AI Developers
- Minor Modules: Foundations of International Management I, Interdisciplinary Business Seminar

**North South University** **Dhaka, Bangladesh**  
*BS in Computer Science and Engineering; CGPA: 3.66 out of 4.00* *2015 – 2018*

- Dissertation Topic: Kothamala - A Bangla Speech Recognition Engine

**Dhaka College** **Dhaka, Bangladesh**  
*Higher Secondary Certificate; Science Group; GPA: 5.00 out of 5.00* *2011 – 2013*

**Rampura Ekramunnesa Boys' High School** **Dhaka, Bangladesh**  
*Secondary School Certificate; Science Group; GPA: 5.00 out of 5.00* *2009 – 2011*

## EXPERIENCE

---

**Working Student - Automation** **Jul 2022 – Apr 2023**  
*Elektrobit Automotive GmbH* *Erlangen, Germany*

- Worked on the emergency update automation for Volkswagen's electric car.
- **Responsibilities:**
  - Developed and maintained Python and Bash scripts to automate tasks.
  - Utilized Github for version control and collaboration on script development.
  - Utilized Jira for project management.
  - Documented scripts and workflows to improve project transparency and knowledge sharing.

**Project Coordinator** **Feb 2020 – Dec 2020, Apr 2021 – Jan 2022**  
*Robi Axiata Limited, Department of Analytics Center of Excellence* *Dhaka, Bangladesh*

- Contributed to technology upgradation from 3G to 4G (U900 to L900, U21 to L21), L18 integration, LTE bandwidth expansion from 10 to 12 MHz, MIMO integration, Antenna Optimization and many more.
- Developed *Microsoft Kaizala* Message Alert system, built using Python and SQL, which can catch a few specific degradations of network performance KPI and send a message alert including all the required degradation details to a Kaizala group.
- **Responsibilities:**
  - Analyzed network performance KPI for 2G, 3G, and LTE technologies for Ericsson and Huawei vendors.
  - Developed and tuned SQL queries to extract and analyze performance data from Oracle databases.
  - Created performance reports and presentations for stakeholders, including pre-post analysis, bad performing cell identification, worse cell tracking, etc.
  - Collaborated with cross-functional teams to identify and resolve network issues.

**Lab Officer** **Jan 2019 – Dec 2019**  
*North South University, Department of Electrical & Computer Engineering* *Dhaka, Bangladesh*

- **Conduct lab classes for the following courses:**
  - CSE115L (Programming Language I Lab) [Fundamentals of Programming Language Using C]
  - CSE215L (Programming Language II Lab) [OOP Using Java]
  - CSE225L (Data Structures and Algorithms Lab) [Using Java]
  - CSE311L (Database Systems Lab) [SQL]

- **Responsibilities:**

- Developed and curated comprehensive laboratory materials and curriculum.
- Led engaging laboratory class sessions and instructed students on relevant concepts and techniques.
- Prepared and evaluated regular assessments, assignments, exams, and projects.
- Maintained accurate records of student attendance, participation, and performance.

**Under-Graduate Assistant**

North South University, Department of Electrical & Computer Engineering

Jan 2019 – Apr 2019

Dhaka, Bangladesh

- **Assist Faculty members with the following course:** CSE115 (Programming Language I), Instructors- Dr. A. K. M. Ashikur Rahman & Dr. Muhammad Asif Hossain Khan
- **Responsibilities:**
  - Conducted tutorial sessions for students needing extra help outside of class hours.
  - Assisted faculty members in course-related work, such as preparing course materials and organizing class activities.
  - Graded homework and assignments, ensuring fair and consistent grading across all students.
  - Provided feedback to students to help them improve their understanding of course concepts.

## PUBLICATIONS

---

- Shakil Ahmed Sumon, Joydip Chowdhury, **Sujit Debnath**, Nabeel Mohammed, Sifat Momen, “**Bangla Short Speech Commands Recognition Using Convolutional Neural Networks**”, In *1<sup>st</sup> International Conference on Bangla Speech and Language Processing (ICBSLP)*, pp. 1-6, 2018.
- Nazmul Alam Diptu, Md. Asif Khan, **Sujit Debnath**, Abdullah Al Imam, Al Mahadi Hasan Rakib, Kazi Asfaq Ahmed Ador, Rashedur M. Rahman, “**Early Detection of Glaucoma Using Fuzzy Logic in Bangladesh Context**”, In *9<sup>th</sup> International Conference on Intelligent Systems (IS’18)*, pp. 87-93, 2018.

## SKILLS

---

- **Programming Languages:** Python, Java, C, C++, SQL, Bash
- **Frameworks and Libraries:** NumPy, Pandas, SciPy, Scikit-learn, Keras, Matplotlib, Seaborn
- **Database:** Relational database - Oracle, MySQL, and NoSQL database - MongoDB
- **Version Control System, DevOps Tools and OS:** GitHub, Docker, Linux
- **Simulation Tools:** Matlab, Logisim
- **Editor/IDE:** VSCode, Code Blocks, Eclipse, PyCharm
- **Tools and Software:** Microsoft Power BI, MS Excel, MS Word, MS PowerPoint, MS Outlook, and  $\LaTeX$
- **Project Management:** Jira
- **Soft Skills:** Data Visualization & Dashboarding, Data Management & Analysis, Analytical Report Writing, Task Automation, Problem-Solving Skills
- **Languages:** English (Proficient) and Bengali (Native)

## SCHOLARSHIP & ACHIEVEMENTS

---

- **Honors in BS:** *magna cum laude*, 22nd Convocation of North South University, Bangladesh.
- **Financial Aid:** Achieved 25% tuition waiver from Summer 2015 to Fall 2018, North South University, Bangladesh.

## EXTRACURRICULAR ACTIVITIES

---

NSU Problem Solvers (NSUPS)

Member

Dhaka, Bangladesh

2015 – 2016

JAAGO Foundation

Volunteer

Dhaka, Bangladesh

2014 – 2015

Volunteer for Bangladesh (VBD)

Community Volunteer

Dhaka, Bangladesh

2014 – 2015