Sujit Debnath

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EDUCATION

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

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

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*

- **Projects:** Technology up-gradation from 3G to 4G (U900 to L900, U21 to L21), L18 integration & LTE bandwidth expansion from 10 to 12 MHz, MIMO integration, and Antenna Optimization.
- **Microsoft Kaizala Message Alert System:** 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.

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

- **Conduct lab classes for the following courses:** Fundamentals of Programming Language Using C, OOP Using Java, Data Structures and Algorithms, Database Systems.
- **Responsibilities:** Designing course curriculum & conducting lab classes; Arrange & evaluate assignments, exams, and projects; Invigilate during exams & assist for grading.

Under-Graduate Assistant — Jan 2019 – Apr 2019
***North South University**, Department of Electrical & Computer Engineering* — *Dhaka, Bangladesh*

- Assisted faculty members in CSE115 (Programming Language I) course which is Fundamentals of Programming Language.
- **Responsibilities:** Conduct tutorial sessions for students needing extra help outside of class hours; Grading of home-works, assignments and assist faculty members in their course-related work.

PUBLICATIONS

Bangla Short Speech Commands Recognition Using Convolutional Neural Networks: Published in 1st *International Conference on Bangla Speech and Language Processing (ICBSLP)*, pp. 1-6, 2018. (doi.org/10.1109/ICBSLP.2018.8554395)

Early Detection of Glaucoma Using Fuzzy Logic in Bangladesh Context: Published in 9th *International Conference on Intelligent Systems (IS'18)*, pp. 87-93, 2018. (doi.org/10.1109/IS.2018.8710490)

SKILLS SUMMARY

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

Frameworks & Libraries: Numpy, Pandas, SciPy, Scikit-learn, Keras, Matplotlib, Seaborn

Database: Relational database - Oracle, MySQL, and NoSQL database - MongoDB

Version Control System, DevOps & Simulation Tools:: GitHub, Docker, Matlab, Logisim

Tools, Software & Platforms: Microsoft Power BI, MS Office (Excel, Word, PowerPoint, Outlook), LaTeX, Linux

Soft Skills: Data Visualization & Dashboarding, Data Management & Analysis, Analytical Report Writing, Automation

EXTRACURRICULAR ACTIVITIES

NSU Problem Solvers (NSUPS) — Dhaka, Bangladesh
Member — *2015 – 2016*

JAAGO Foundation & Volunteer for Bangladesh (VBD) — Dhaka, Bangladesh
Volunteer — *2014 – 2015*