

Sudipta Basak

I am an analytics specialist with more than 5 years of professional experience. Including excellent interpersonal skills, I am adept in statistics, programming, and writing reports. I also have hands-on experience with different machine learning frameworks, big data enabling applications, and ETL.

email: suva309@gmail.com | c: +1 226 973-9458 | LinkedIn: <https://www.linkedin.com/in/sudipta-basak-5a34b6100/>
| Website: www.sudiptabasak.com

Education

- **Western University, London, Ontario, Canada** **2018 – 2019**
[Master of Engineering \(M.Eng.\) in Electrical and Computer Engineering](#)
- **Constructor University, Bremen, Germany** **2014 – 2017**
[Bachelor of Science \(B.Sc.\) in Electrical and Computer Engineering](#)

Technical Skills

- **Big Data Tools** – Hadoop, Hive, Spark SQL, and Kafka
- **Languages** – C, C++, Python, R, Scala, SQL, and HTML
- **Machine Learning Tools** – pandas, Numpy, Scikit-learn, NLTK, TensorFlow, PyTorch, and MLlib
- **Scientific Computing** – MATLAB, Mathematica, and MS Excel
- **Databases** – MS SQL Server, PostgreSQL, and MongoDB
- **Visualization Software** – Tableau
- **Applications** – LaTeX and MS Office
- **Cloud Services** – MS Azure, Amazon Web Services, and Google Cloud Platform
- **Version Control System** – Git
- **Operating Systems** – Unix/Linux and Windows

Experiences

- **Senior Analyst, Business Analytics** | [CIBC](#), Toronto, Ontario, Canada **March 2022 – Present**
CIBC is a Canadian multinational banking and financial services corporation based in Toronto, Ontario. Including Canada, CIBC has operations in United States, Caribbean, Asia, and United Kingdom. It ranks at 171 in Forbes Global 2000 listing for the year 2021. I am currently working as a Senior Analyst, Business Analytics for the Technology, Infrastructure & Innovation department of CIBC.

- **Analyst** | [Larway Transportation](#), Barrie, Ontario, Canada **November 2019 – March 2022**
Larway Transportation is a successful transportation company based in Barrie, Ontario. It has been in operation for more than 35 years. It focuses mostly on transporting truckload shipments in between Canada and United States. I was hired to apply analytics to improve different business processes and grow sales for the company.

- Built and managed the entire data analytics pipeline of Larway.
- Implemented a live Python script to automatically file email advertisements received by Larway. The script minimizes the need to read and manually file email advertisements, thereby saving the operations and sales teams approximately 6 hours per week (sufficient time in the transportation industry to secure lots of revenue-generating orders). A trained machine learning model was included in the script to recognize and classify incoming emails before the email advertisements are filed.
- Created a list of partner transportation companies from the database of Larway's Transportation Management System software (software that helps the operations team to book orders, dispatch trucks, etc.). The list was compiled by combining data from different database tables and was used to send email advertisements to Larway's partner transportation companies. Since it was implemented (i.e., since February 2020), it helped Larway secure numerous revenue-generating orders.
- Implemented a live Python script to extract and display key information from incoming email advertisements in geographic maps in Tableau. The maps represent the availability of freight and trucks across the provinces of Canada and states of United States. The operations and sales teams use the map for planning purposes.
- Created a database of pricing information from the database of Larway's Transportation Management System software and external market intelligence sources. This database will be used to create standardized pricing strategies to price shipments profitably.
- Consulted as a machine learning subject matter expert to teams which work on projects outsourced by the company.
- Trained colleagues to use new software in the company.
- Initially hired as a contractual employee. Awarded permanent position later due to exemplary performance.

Tools used – T-SQL, Microsoft SQL Server, Python, Microsoft Excel, Tableau, and Microsoft Azure

• **Masters Student** | *Western University, London, Ontario, Canada*

May 2018 – December 2018

- Worked on an outsourced project for McCormick Canada (a spice manufacturing company in London, Ontario), as part of a research team of [Prof. Dr. Abdallah Shami](#).
- Preprocessed IoT datasets in Microsoft Excel to prepare them for modeling.
- Developed machine learning pipelines to train different machine learning models in R to optimize the performance of an industrial process of McCormick.
- Regularly presented our findings to McCormick employees, on behalf of our team.

Tools used – R, Microsoft Excel, and Tableau

• **Research Assistant** | [Fraunhofer Gesellschaft](#), *Germany*

July 2017 – December 2017

Fraunhofer Gesellschaft is the biggest organization for applied research and development services in Europe.

- Initially, I worked at [Fraunhofer MEVIS](#) (one of the research institutes under the umbrella of Fraunhofer Gesellschaft) doing research in the field of medical technology. My research involved processing image data and developing novel algorithms to model temperature changes inside human body upon insertion of medical needle.
- Next, I worked at [Fraunhofer IIS](#) doing research in the field of audio technology. My research involved processing audio data and improving an audio code at the algorithmic level.

Tools used – MevisLab (image processing IDE), MATLAB, C, and Microsoft Excel

Volunteer Experiences

- I worked as a teaching and student assistant during my undergraduate studies in Germany.
- I worked as a mathematics and physics instructor at Progressive Training College of Business and Health, Barrie for 3 months (contract job).
- I worked as a mathematics instructor at Mathnasium, a tutoring institution in Barrie for a year. I specialized in teaching high school students.

Certifications

- SQL & Database Design A-Z™: Learn MS SQL Server + PostgreSQL | Udemy [↗](#)
- Tableau 10 A-Z: Hands-On Tableau Training For Data Science | Udemy [↗](#)
- Machine Learning A-Z™: Hands-On Python & R In Data Science | Udemy [↗](#)
- Deep Learning A-Z™: Hands-On Artificial Neural Networks | Udemy [↗](#)
- Microsoft Power BI Desktop for Business Intelligence | Udemy [↗](#)