Arnab Das

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Education

UNIVERSITY OF BRITISH COLUMBIA   **Vancouver, Canada**

Bachelor of Science in Mathematics (Applied Math/Stats concentration)   *2020-2024*

- Statistical inference: scripting for parametric and non-parametric methods, goodness-of-fit methods, etc
- Modelling: model diagnostics, inference/predictive modelling, A/B testing, etc.
- Analytics: Research and analyze to recommend solutions to issues and problems.
- Machine learning: data mining, supervised/unsupervised learning, neural networks, etc.
- Robust software component design, development, and analysis.
- Data structures and algorithms
- Relational and non-relational database systems, data modeling, query languages, and optimization.

Experience

Teaching Assistant (Volunteer)   **Chattogram, Bangladesh**

CGS community school   *2017-2019*

- Organize and facilitate study groups or tutoring sessions to help students grasp difficult concepts.
- Offer one-on-one assistance to students who require extra help or personalized attention.
- Provide additional resources and materials to supplement classroom learning.

Technical support/service (Part-time)   **Chattogram, Bangladesh**

CTG Medical (Under a doctor)   *2019-2020*

- Provide technical support for hardware and software issues on Windows 10 devices.
- Install, configure, and maintain software applications and peripherals.
- Manage user accounts, permissions, and security settings.
- Create and maintain documents and presentations.

Projects

Pulsar Star Classification Using Two Signal Preprocessing Techniques - Link

- ∗ Explore how a star's integrated and DM-SNR profiles affect the accuracy of K-Nearest Neighbors classification models based on these two profiles.

Hotel booking confirmation using supervised learning methods - Link

- ∗ The outcome of this project is to understand better whether a customer will confirm the booking or revoke it by implementing ML methodologies, such as predictive modeling, feature selections, and hyperparameter optimization.

Bequeath - A donation tracker - Link

- ∗ Basic Jframe app for people who donate quite frequently and needs to keep a record of their transactions.

Technical Skills

General: Data Analysis, Feature Engineering, Querying Data, Data Modeling, Data Structures, Supervised and Unsupervised Learning, Predictive Models, Databases, Analytics and Insights, Data Reporting

Languages: Python, R, SQL, VBA, Java, C++, Racket

Tools: GitHub, MS Excel, Power BI, MySQL

Frameworks/Libraries: Python: pandas, scikit-learn, R: tidyverse