

Md Belal Hossain Santo

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Education

Universiti Teknologi Malaysia, Johor Bahru, Malaysia

Bachelor of Computer Science (Software Engineering) (2018- 2023)

Research Experience

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- In-car Human Machine Interface: An Approach to Reduce Driver Distraction, Undergraduate Final-Year Project, Universiti Teknologi Malaysia.
 - Research Assistant and Chatbot Developer at the Software Engineering Research Group, Faculty of Computing, Universiti Teknologi Malaysia.

Industry Experience

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- Software Developer Intern, Hatio Sea Sdn Bhd, Setia Alam, Shah Alam, Malaysia.

Projects

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- **Data Collection Using APIs** - used Spotify API to collect real-time music data from Spotify and created a dataset of music with their features and popularity.
 - **Data Cleaning Pipeline with Pandas** - built a data cleaning pipeline using pandas based on predicting loan approvals dataset.
 - **Exploratory Data Analysis** - used EDA data exploration technique on Instagram Reach dataset to discover patterns, trends and relationships within the data.
 - **B2B Courier Charges Accuracy Analysis** - analyzed whether courier companies were charging fair and accurate fees for B2B deliveries, ensuring businesses weren't overpaying for shipping services.
 - **Price Prediction for Airbnb Listings** - estimated Airbnb listing prices by analyzing various factors, walking through the entire data science workflow - from exploring and cleaning the data to building models and refined them for better accuracy.

Skills and Interests

- **Programming Languages:** Java, Python and R (includes data structure, OOP, error handling)
- **ML/DL Frameworks:** TensorFlow, PyTorch, Keras
- **Libraries:** scikit-learn, pandas, Numpy
- **Database:** SQL (MS SQL Server)
- **Visualization Tool:** Tableau

Mathematical Competencies

- **Statistics** - Descriptive stats, distributions, Bayes' theorem
- **Linear Algebra** - Vector, matrices, eigenvalues
- **Calculus** - Derivatives, partial derivatives, chain rule

Club

- Google Developer Student Clubs (DSC) – Universiti Teknologi Malaysia

Volunteer Work

- **General Secretary (Country Chapter - Bangladesh)**
January 2022 to January 2023

Volunteered to assist UTM International to manage Bangladeshi students' welfare, academic and non-academic activities at Universiti Teknologi Malaysia.

References

Prof. Nor Azman Ismail, azman@utm.my, Universiti Teknologi Malaysia

Prof. Rohayanti Binti Hassan, rohyanti@utm.my, Universiti Teknologi Malaysia