

# BHABILSH LIMBU

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## EDUCATION

### University of Greenwich

BSc Computer Science (Data Science) Hons; GPA: 3.8/4.0

London, UK

Aug 2022 – Jul 2026

- **Relevant Courses:** Statistical Techniques with R, Information Visualisation & Big Data, Machine Learning, Artificial Intelligence Applications, Paradigms of Programming, Algorithms & Data Structures.

## DATA SCIENCE PROJECTS

### Tactical Solar Microgrid Deployment (Ukraine) | *Python, GeoPandas, H3, Scikit-Learn*

- Developed a geospatial optimisation pipeline to identify resilient solar microgrid sites in conflict zones, integrating GHI, topography, and population demand data.
- Implemented K-Means, DBSCAN, and Hierarchical clustering on hexagonal grids (H3) to identify high-potential zones; validated cluster quality using Silhouette and Davies-Bouldin scores.
- Applied P-Median optimisation to minimise travel distance for emergency energy access and conducted robustness testing against simulated irradiance reductions and site loss.

### Clustering Analysis of Credit Card Data | *Python, PCA, K-Means, DBSCAN*

- Cleaned and preprocessed customer data by handling missing values via iterative imputation and detecting redundancies using Spearman correlation.
- Applied PCA for dimensionality reduction and implemented K-Means, GMM, and DBSCAN to identify natural groupings, optimising clusters using the Elbow Method.
- Visualised behavioural differences using scatter plots and heatmaps to provide actionable segmentation insights.

### Technology Consulting (Hackathon) | *Jupyter, Power BI, Data Visualisation*

- Conducted research on data migration strategies, focusing on transferring large datasets across different storage systems and formats.
- Built interactive Power BI dashboards to illustrate the correlation between tutor engagement and student retention.

## EXPERIENCE

### Asia Allied Infrastructure

Debate & Public Speaking Teacher

Kowloon, Hong Kong

Oct 2024 – Present

- Developed lesson plans for diverse English proficiency levels; integrated AI tools to reduce preparation time by half.
- Guided students in using voice and image recognition technologies to analyse and improve their speeches, showcasing practical applications of AI in data analysis and pattern recognition.

### Nepali Society, University of Greenwich

Treasurer

London, UK

Dec 2023 – Apr 2024

- Managed financial records and budget allocation for society events and activities.

## TECHNICAL SKILLS & CERTIFICATIONS

**Languages:** Python, R, Java, SQL, English, Cantonese, Mandarin, Nepali, Hindi.

**Developer Tools:** Git, Jupyter Notebooks, Microsoft Power BI, VS Code

**Certifications:** Data Science Math Skills (Duke University), Microsoft Data Analysis, Machine Learning Calculus (LinkedIn).

**Interests:** Debating, Fitness, Content Creation