

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