

Ashish Agarwal

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SUMMARY

Passionate data science graduate student looking to advance understanding and expertise. Technically proficient in Statistical Analysis, Hypothesis testing, Descriptive statistics, Text processing, Sentiment analysis, A/B Testing, Anomaly detection, Time Series Analysis, Hyperparameter tuning, Regression analysis, Supervised learning, Unsupervised learning, Reinforcement learning, Python, R, Pandas, Polars, dask, Numpy, Tensorflow, Scikit-Learn, SQL, NoSQL, Excel, AWS Lambda, Redshift, Kafka, Azure, git, Docker, S3, EC2, Airflow, Django, Colab, Bash, Linux, Matplotlib, Seaborn, Plotly, Altair, Power BI, Tableau and MicroStrategy.

EDUCATION

University of New Haven		West Haven, CT
Master of Science, Data Science	GPA: 4.0	May 2025
Institute of Engineering, Pulchowk Campus		Pulchowk, Lalitpur, TU
Bachelor's in computer engineering	GPA: 3.2	Nov. 2016 – Sept. 2021

RELATED EXPERIENCE

University of New Haven	West Haven
Data Engineer	Oct 2023 – Present
<ul style="list-style-type: none">Work in ETL/ELT pipelines using AWS platform in Lambda, EC2, S3, Redshift, Cloudwatch and PowerBI.Work in image data to extract features using OCR. Use open-source libraries in hugging-face to fine-tune.	
LIS Yomari	Lalitpur, Nepal
Associate Software Engineer	April 2021 – May 2022
<ul style="list-style-type: none">Served as a Data Engineer to create various ETL/ELT pipelines. Transfer legacy system to Cloud in AWS.Served as a BI Developer to create Microstrategy Reports. Created Metrics and Attributes for Dashboards.	
Tootle	Lalitpur, Nepal
Data Science Intern	Jan 2021 – March 2021
<ul style="list-style-type: none">Researched in ride sharing platforms in Nepal. Developed LRFM algorithms and Customer Segmentation.Worked in creating Dashboards, collecting real-time Nosql data using MongoDB, Django and Python.	

RELEVANT PROJECTS

Retail Sales Inventory and Traffic Dashboards	Lalitpur, Nepal
LIS Yomari	Oct. 2021 – March 2022
<ul style="list-style-type: none">Developed Metadata objects, Metrics and Attributes based on specifications on MicroStrategy.Conducted data validation and performance testing. Designed dashboards and dossiers according to client's specifications.	
Retail Sales Inventory and Traffic ETL	Lalitpur, Nepal
LIS Yomari	July 2021 – Sept. 2021
<ul style="list-style-type: none">Developed ETL logic utilizing TrueVUE APIs and loaded data into AWS Redshift and S3.Implemented logging in S3 and established event triggers through EventsBridge and AWS Lambda.	
Skin Cancer (Melanoma) Detection	Kathmandu, Nepal
Undergraduate Project	March 2020 – July 2020
<ul style="list-style-type: none">Developed a system for detecting Melanoma, a specific type of skin cancer, utilizing CNN.Technologies used: Tensorflow, Flutter mobile application, OpenCV and Kaggle for dataset.	

EXTRACURRICULAR ACTIVITIES

Helping Hands Nepal, HENN	Kathmandu, Nepal
Volunteer and Technical Supervisor	May 2017 – July 2019
<ul style="list-style-type: none">Implemented Linux-based low-resource distros in remote schools of Nepal through HENN initiative.Created tailored educational materials in Nepali language and distributed them through locally hosted web pages.	