

SHRADDHA SHRESTHA

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SUMMARY

Graduate student in Data Science with experience in developing machine learning models, predictive analytics, cloud computing, and android app development. Proficient in software testing, design principles, data analysis, AI, ML, NLP, Reinforcement Learning, cloud technologies (AWS, Azure), and Git.

EDUCATION

University of New Haven || **MSc Data Science (GPA: 3.9)** || Graduation Date: May 2025 || West Haven, CT

London Metropolitan University || **BSc (Hons) Computing (GPA: 4)** || Graduation Year: June 2022 || Pokhara, Nepal

SKILLS

Languages: Python (Numpy, Pandas, Matplotlib, Seaborn, Flask, Scikit-Learn, TensorFlow, Keras), Dart

Tools: PowerBI, Tableau, SQL, Excel, EDA,

Big Data & Cloud Technologies: Amazon Web Services (Redshift, Glue, Lambda, EC2, EMR, S3), Databricks, Hadoop,

Soft Skills: Clear Communication, Team Collaboration, Problem-Solving, Leadership, Client Management, Continuous Learning

WORK EXPERIENCE

Downtown Evening Soup Kitchen, Inc.

New Haven, CT

Data Analyst

Aug 2024 – Present

- Developed real-time dashboards to track monetary, food, and clothing donations by organizations and individuals. Monitored homeless populations and optimized donation distribution based on past data and predictive analysis.
- Executed ETL processes and handled data management by cleaning and pre-processing data to enhance quality for visualization and optimize SQL query performance.

University of New Haven

West Haven, CT

Graduate Assistant

Sep 2023 – Present

- Conducted analysis of applicant data to verify academic qualifications and calculate CGPAs, ensuring data accuracy to support admissions decisions and resolving 99.7% of applicant inquiries efficiently.
- Predicted university visa trends using an 8-year data analysis in Excel, creating an interactive dashboard to visualize trends and enhance decision-making.

Black Tech Pvt. Ltd.

Pokhara, Nepal

Quality Assurance Engineer

Sep 2019 – Nov 2021

- Worked in an Agile environment, creating test cases (verification and validation testing) and using Selenium for automation testing to ensure quality control and thoroughly validated software features and gathered requirements, maintaining quality standards and delivering error-free solutions

PROJECTS

Trading Strategy Planner

Mar 2024 – May 2024

- Developed an automated data processing pipeline using Yahoo Finance API and AWS services (Glue, Lambda, SQS, S3) to handle over a million records from S&P indices, integrated with Redshift for advanced analytics and ML model training for business strategies.

Quora Question Pair Similarity

Mar 2024 – May 2024

- Developed a project implementing machine learning to improve question similarity detection on platforms like Quora using advanced feature engineering, ML techniques, token-based metrics, and fuzzy matching scores, enhancing model performance through informed feature selection and tuning.

Himalayan Climbing Trends Analysis

Dec 2023 – Jan 2024

- Created a Power BI dashboard to analyze climbing trends using data from 3,854 summit attempts. Identified Everest as the most popular peak and autumn as the top climbing season, with insights on 185 summit deaths.

Tic-Tac-Toe with Multiple Agents

Nov 2023 – Dec 2023

- Designed a Tic-Tac-Toe game with multiple AI agents, leading to a 40% enhancement in gaming experience and a 35% improvement in decision-making and gameplay optimization through reinforcement learning and adversarial search.

Water Quality Prediction

Oct 2023 – Dec 2023

- Improved data quality and predicted water potability with 90% accuracy using machine learning models. Followed CRISP-DM methodology for data analysis, data cleaning, feature engineering, EDA, hypothesis testing and visualization. Demonstrated results using FLASK.

Serenity

Nov 2021 – Feb 2022

- Developed a mindful Android app in Flutter using RUP methodology, allowing personalized mixes of soothing sounds and discreet communication with psychologists. Integrated a secure payment gateway for seamless transactions.