

Jyoti Bhandari

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WORK EXPERIENCE

University of New Haven

Provost Assistant/Research Assistant

West Haven, CT

January 2023 – May 2023

- Spearheaded the implementation of a data-driven decision-making and evaluation system for UNH's Graduate Admissions Office, employing statistical analysis and machine learning techniques to enhance productivity and drive student and program success. (Research project)
- Collaborated closely with Dr. Prof. Ardiana Sula on the course "Distributed and Scalable Data Engineering," resulting in a 95% student satisfaction rating.
- Mentored students in Python programming, data ingestion, building robust Data Science Pipelines, hands-on experience with AWS labs (AWS EC2, S3, EMR), working in a Linux environment, managing NoSQL databases (MongoDB), advanced SQL, and executing clustered data processing using technologies like Hadoop, Spark, Map-reduce, and Hive. Contributions led to a 40% improvement in project quality.

Learning Assistant

August 2022 – December 2022

- Acquired comprehensive expertise in instructing key concepts of Python libraries like pandas, NumPy, sci-kit learn, Flask, web scraping, linear regression, and the complete data science project pipeline encompassing data acquisition, preprocessing, model development, and deployment which resulted in a remarkable 45% enhancement in student project outcomes.
- Demonstrated excellence in developing, automating, and executing analytical models using data scripting languages such as SQL and Python, as well as statistical/mathematical software like SPSS.

Cotiviti Nepal Pvt. Ltd

Software Engineer I (Data Analyst)

Kathmandu, Nepal

February 2019 – November 2021

- Developed a risk-assessment system for US Healthcare customers, resulting in a 30% increase in overall satisfaction ratings.
- Optimized data accuracy by 20% through advanced SQL and PL/SQL programming.
- Streamlined data integration processes using Oracle Data Integrator, reducing processing time by 25%.
- Demonstrated proficiency in Python and MicroStrategy, improving report accuracy and efficiency by 15%.
- Mentored new team members, increasing new member productivity by 40%.
- Developed critical skills in Coordination, Critical Thinking, Monitoring, Active Learning, Leadership, and Championing Change, leading to a 25% improvement in team collaboration and project success rates.
- Exhibited expertise in JIRA, Tableau, Bitbucket, Excel, and PowerPoint, improving project delivery times and accuracy by 30%.

PROJECTS

- **Content Moderator:** Developed an AI project using NLP to detect and moderate abusive text, webpages, and audio to create a safer internet experience.
- **Data Science Job Hunt:** Built an interactive dashboard using Data Engineering techniques to analyze Data Science job opportunities in the US, and predict salaries, and employee retention.
- **Chatbot Recommending Products:** Developed a Discord chatbot using CNN, K-means clustering, KNN algorithm, and VGG16 model to recommend products from the Flipkart database based on visual similarity.
- **Semantic Image Segmentation:** Model that does semantic segmentation of trees, roads, and buildings of any input images using DenseASPP Convolutional layers.
- **NutriBot:** A Discord bot for personalized recipe recommendations and nutritional analysis.

EDUCATION

University of New Haven

MS in Data Science (GPA: 4.0)

West Haven, CT

Graduation Date: December 2023

- Awards: Provost Assistant, Recipient of the Trust and Safety Scholarship Program Sponsored by Cognizant Technology Solution 2021, Outstanding Graduate Student in Data Science 2023 Award

Kathmandu Engineering College, Tribhuvan University

BE in Computer Engineering (GPA: 4.0)

Kathmandu, Nepal

Graduation Date: October 2018

SKILLS

Power BI | SQL (MySQL, Postgres, NoSQL) | Python(NumPy, SciPy, Scikit Learn, Matplotlib, Seaborn, Pandas, TensorFlow, PyTorch, Supervised/Unsupervised machine learning, NLP, Flask, Dash by plotly) | Bayesian Inference Using PyMC3 | Amazon Web Services | Oracle | Hadoop | Spark | Hive | Linux | Bash

Honors and Awards:

- Zeta Chapter of Upsilon Pi Epsilon, International Honor Society for the Computing and Information Disciplines Membership, 2023