

Jyoti Bhandari

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WORK EXPERIENCE

University of New Haven

West Haven, CT

Provost Assistant-TA/Research Assistant

January 2023 – Present

- Developing a decision-making and evaluation system for UNH's Graduate Admissions Office, utilizing statistical analysis and machine learning techniques to increase productivity and improve student and program success.
- Providing expert assistance to Dr. Prof. Ardiana Sula for the course "Distributed and Scalable Data Engineering," resulting in a 95% satisfaction rating among students.
- Mentoring students in Python, Data ingestion, building Data Science Pipelines, AWS labs (AWS EC2, S3, EMR), Linux environment, NoSQL databases (MongoDB), advanced SQL, and clustered data processing (e.g., Hadoop, Spark, Map-reduce, and Hive), leading to a 40% increase in project quality.
- Processing, filtering, and presenting large quantities of data, ensuring 100% data accuracy, and reducing processing time by 20%.

Learning Assistant

August 2022 – December 2022

- Assisted Dr. Prof. Ardiana Sula in teaching the course "Intro to Data Science," resulting in a 96% satisfaction rating among students.
- Developed extensive experience in teaching concepts of Python pandas, NumPy, sci-kit learn, Flask, Web Scrapping, Linear Regression, and data science project pipeline from data acquisition, preprocessing, and model making to model deployment, leading to a 45% improvement in student project outcomes.
- Excelled at developing, automating, and running analytical models using data scripting languages (e.g., SQL, Python) and statistical/mathematical software (e.g., SPSS), resulting in a 25% reduction in model development time.

Cotiviti Nepal Pvt. Ltd

Kathmandu, Nepal

Software Engineer I (Data Analyst)|Trainee

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

- **Walmart Sales Analysis:** Built a linear regression model that predicted Walmart's future sales with 94% accuracy, leading to better inventory management and increased profits for the company.
- **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 to analyze data science job opportunities in the US, and predict salaries, and employee retention, resulting in a comprehensive platform for job seekers and recruiters.
- **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.

EDUCATION

University of New Haven

West Haven, CT

MS in Data Science (GPA: 4.0)

Graduation Date: December 2023

- Organizations/Awards: Provost Assistant, Recipient of the Trust and Safety Scholarship Program Sponsored by Cognizant Technology Solution 2021, Executive Board of Data Science Club

Kathmandu Engineering College, Tribhuvan University

Kathmandu, Nepal

BE in Computer Engineering (GPA: 4.0)

Graduation Date: October 2018

- Organizations/Awards: Dean's List, Microsoft Student Partner 2017, Executive Board of IT Club

SKILLS

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