Jyoti Bhandari

West Haven, CT | LinkedIn | 571-509-1267 | https://jyotibhandari.online/
jbhan1@unh.newhaven.edu , jyotibhandarii32@outlook.com

EDUCATION

University of New Haven | Master of Science in Data Science (GPA: 4.0) | Graduation Date: December 2023 | West Haven, CT
Tribhuvan University | B.E. in Computer Engineering (GPA: 4.0*)* | Graduation Date: October 2018 **|** Kathmandu, Nepal

SKILLS

Python, SAS, R, Java, SQL| Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, Keras, PyTorch, Pyspark | Dash by Plotly, Django, Flask| PyMc3 | AWS | Databricks | Hadoop, Spark, Hive | JIRA, Bitbucket, GIT | Natural Language Processing (NLP) | Google Analytics

WORK EXPERIENCE

University of New Haven | Teaching Assistant | May 2023 – Dec 2023 | West Haven, CT

- Led recitation sessions for 'Intro to Data Science' and 'Deep Learning' courses, providing guidance on AWS services such as Step Functions, Lightsail, S3, EC2, Lambdas, and SageMaker to enhance students' technical skills and knowledge.
- Prepare lecture materials, and programming assignments, and perform grading duties.

University of New Haven | Provost Assistant | January 2023 – May 2023 | West Haven, CT

- Led the Data Analytics team to research and develop a data-driven decision-making, evaluation, and predictive model for UNH's Graduate Admissions Office, employing statistical methods, analytical techniques, and machine learning algorithms to enhance productivity and drive student and program success.
- Created data visualizations and dashboards using Power BI that consolidated and organized graduate admissions key performance metrics that are informative, strategic, intuitive, and actionable.
- Demonstrated expertise in seamlessly collecting, analyzing, and meticulously documenting intricate business requirements.
- Worked collaboratively with cross-functional teams to develop a comprehensive hypothesis matrix, promoting data-driven decision-making by effectively handling various data formats including JSON, XML, and CSV.
- Skillfully prepared and preprocessed data subsets, optimizing them for in-depth Exploratory Data Analysis (EDA) and hypothesis testing, thereby facilitating data-driven insights.
- Implemented Agile methodologies, fostering collaboration between cross-functional teams through practices like daily stand-ups, sprint planning, and retrospectives and engagement with stakeholders.

University of New Haven | Learning Assistant | August 2022 – December 2022| West Haven, CT

- Led the session on complete data science project pipeline encompassing statistics, datasets acquisition, data quality check, preprocessing, building predictive models, testing models, deployment, and producing academic papers resulting in a remarkable 45% enhancement in student project outcomes.

Cotiviti Nepal Pvt. Ltd | Software Engineer I (Data Analyst) | February 2019 – November 2021| Kathmandu, Nepal

- Developed and implemented solutions for high volume, low latency applications, ensuring optimal data collection, cleansing, transformation, and storage.
- Designed and executed intricate PL/SQL procedures and functions for seamless ETL operations, importing vital data from clients' FTP servers directly to the Oracle database and employed PL/SQL for comprehensive analysis of raw data within the domain of US healthcare information, unveiling pivotal trends, patterns, and anomalies that fortified data quality assurance efforts. Demonstrated strong attention to detail and ability to notice discrepancies in data.
- Monitored and troubleshooted data pipelines, optimizing performance and minimizing human involvement.
- Applied curiosity and creativity to approach data-related problems, providing cost-effective solutions and recommendations that delivered tangible benefits.
- Contributed to growing a culture of data-driven decision-making and supported colleagues in developing data literacy skills.
- Proficient in utilizing business intelligence software such as Tableau, PowerBI, and MicroStrategy to visualize and analyze data.

PROJECTS

- **Content Moderator**: Developed a model using NLP to detect risk and fraud in e-commerce and moderate abusive text, webpages, and audio and fraud detection 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**: A computer vision/Deep Neural Network model that does semantic segmentation of trees, roads, and buildings of any input images. (Deep Learning Project)
- **NutriBot**: This Natural Language Processing (NLP) project is a Discord bot, finetuned on Large Language Model BERT, for personalized recipe recommendations and nutritional analysis as per user's input.

Leadership: Executive board member of the Data Science &AI Club and Nepalese Student Association at the University of New Haven