Jyoti Bhandari

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

PROFESSIONAL SUMMARY:

As a highly innovative, curious, and analytical professional with an entrepreneurial mindset, I possess strong analytical, quantitative, and critical problem-solving skills along with proficiency in Microsoft Excel, Python, SQL, Tableau, and Power BI. With a solid understanding of artificial intelligence and advanced data analytics principles and practices, I can work both independently and as part of a team in a fast-paced environment. With strong communication skills, I am committed to contributing to collaborative company culture and driving meaningful outcomes.

EDUCATION

University of New Haven   **West Haven, CT**
Master of Science in Data Science (GPA: 4.0)   *Graduation Date: December 2023*
Honors and Awards: Outstanding Graduate Student in Data Science 2023 Award, Zeta Chapter of Upsilon Pi Epsilon, International Honor Society for the Computing, and Information Disciplines Membership, 2023

Kathmandu Engineering College, Tribhuvan University   **Kathmandu, Nepal**
BE in Computer Engineering (GPA: 4.0)   *Graduation Date: October 2018*

WORK EXPERIENCE

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

- Led the Data Analytics team to research and develop a data-driven decision-making and evaluation 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 KPIs that are informative, strategic, intuitive, and actionable.
- Efficient in collecting, cleaning, and performing exploratory data analysis from various sources using Python and SQL. Excelled in extraction, transformation, and loading (ETL) processes, data preprocessing, and quality assurance tasks.
- Demonstrated effective leadership, collaboration, and organizational skills with great attention to detail by successfully delivering the project deliverables through effective teamwork, and collaborating with cross-functional teams, and stakeholders to achieve project goals.
- Mentored and supported 130 students in the course "Distributed and Scalable Data Engineering," improving project quality by 40% through hands-on teaching of Python, AWS (EC2, S3, EMR), NoSQL databases (MongoDB), and advanced SQL, along with Hadoop, Spark, Map-reduce, and Hive.

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

- Demonstrated strong leadership and managerial skills in instructing 55 students on key concepts of Python libraries, statistical analysis, machine learning concepts, and AI/ML algorithms including Pandas, NumPy, Scikit-Learn, Flask, web scraping, supervised and unsupervised learning such as regression, classification, clustering, and decision trees along with statistical tools like SPSS.
- Led the session on complete data science/computer 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   **Kathmandu, Nepal**
Software Engineer I (Data Analyst)   *February 2019 – November 2021*

- Created a cutting-edge risk-assessment system for US Healthcare customers, driving a remarkable 30% surge in overall satisfaction ratings and achieving a substantial 20% optimization in data accuracy through advanced SQL and PL/SQL script.
- Demonstrated expert proficiency in process optimization, streamlining complex ETL processes using Oracle Data Integrator, resulting in an impressive 25% reduction in processing time.
- Excellent verbal and written communication skills with both internal (cross-functional teams) and external partners (vendors).
- Mentored 4 incoming team members, fostering a supportive and collaborative environment, and catalyzing a remarkable 40% increase in their productivity.

- Proficient in utilizing business intelligence software such as Tableau and MicroStrategy to visualize and analyze data, creating interactive dashboards and reports for informed business decision-making.
- Leveraged extensive experience with Excel, including the utilization of pivot tables and VLOOKUPs, while also excelling in JIRA, data visualization tools such as Tableau and MicroStrategy, Bitbucket, Outlook, MS Word, Excel, and PowerPoint, substantially enhancing project delivery times and attaining an exceptional 30% boost in accuracy.

PROJECTS

- **Content Moderator**: Developed an AI project using NLP to detect 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.

SKILLS

Programming: Python, R, Java, MySQL, PL/SQL | Analytics toolkits: Matplotlib, Seaborn, TensorFlow, Keras, PyTorch, Pyspark | Dash by Plotly, Django, Flask| PyMc3 | Cloud Technology: Amazon Web Services | Databricks | Big data technologies: Hadoop, Spark, Hive | Linux, Bash, Mac OS | Power BI | MicroStrategy | Oracle | Git | JIRA | Jupyter notebooks | GitHub | Slack