

Vallika Kasibhatla

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CORE SKILLS

- **MS Office:** Microsoft Project, Excel, PowerPoint, Access
- **Data Analytics:** Python, R-studio, Minitab
- Machine Learning
- **Data Visualization:** Power BI, Tableau
- Process optimization, Automation
- **Database management:** SQL (MySQL, SQLite), NoSQL (MongoDB), ETL, Data Warehousing
- **Cloud & Big Data:** AWS, Hadoop, Web Scraping
- **Packages:** pandas, numpy, scikit-learn, plotly, matplotlib, seaborn, statsmodels, dash
- **Soft Skills:** Leadership, Team management, Communication, Problem solving, Adaptability, Quick learner, Creativity, Organization skills and Innovation

PROFESSIONAL EXPERIENCE

Chevron, Dubai, UAE

June 2022 – May 2023

Supply Chain Operations Analyst

- **Supply Chain Data Analysis:** Managed and analyzed large datasets related to downstream operations, utilizing Python and R-Studio to enhance demand forecasting accuracy by 45%, which contributed to cost reduction and improved inventory management.
- **Automated Data Processing:** Developed and implemented automated data processing solutions in Python, significantly reducing manual data entry tasks and cutting down report generation time by 25 minutes per instance.
- **Vendor Data Management:** Leveraged historical data to conduct in-depth analysis of vendor performance, resulting in a 60% improvement in vendor relationship management and optimizing procurement processes for discontinued and expired products.

Voltas Limited TATA Enterprise, Doha, Qatar

Jan 2020 – Apr 2020

Data Analyst

- **Advanced Data Visualization:** Conducted comprehensive data analysis to uncover patterns and trends, leading to a 35% increase in HR analytical insights by creating interactive dashboards using Power BI.
- **Process Optimization through Data Analysis:** Employed data analysis and visualization techniques to streamline project management workflows, enhancing operational efficiency and reducing project delays.
- **NLP Analysis:** Applied Natural Language Processing (NLP) techniques to analyze employee feedback data, driving a 25% increase in employee satisfaction by informing data-driven engagement strategies.

EDUCATION

ONTARIO TECH UNIVERSITY, Oshawa, Canada

Sep 2023 – Aug 2024

Master's in Engineering Management

AMERICAN UNIVERSITY OF SHARJAH, Sharjah, UAE

Sep 2019 – June 2023

Bachelor of Science in Computer Science, Data Science Minor

PROJECTS

A sentiment analysis-based evaluation system using deep learning methods

- Collaborated with a team of four to develop a website for a Multimodal Deep Learning System designed to analyze textual and auditory feedback collected from students via course evaluations.
- Implemented Microsoft SQL Server, Azure, Python, Natural Language Processing (NLP) and Neural Networks (NN).

Team line-up forecasting in data mining

- Focused on finding the best combination of people that would result in a win for an NBA game. Applied trial and error alongside feature selection, feature transformation, and classification models, including embeddings for text data to predict the winning team in an NBA game.
- Utilized: Support Vector Machine (SVM), Logistic Regression, Gradient Boosting, Neural Networks, and Random Forest (RF)

Generalizing speech emotion recognition: A multimodal and multi-dataset approach

- Conducted deep analysis and research on current challenges in emotion detection through speech, utilizing machine learning techniques, data augmentation techniques for analyzing large datasets, with a focus on improving generalizability.
- Achieved 81% accuracy through ensemble learning, combining strengths of SVM and RF, and consistent 80% accuracy across all emotions.