NISHANT SINGH KUSHWAHA

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EDUCATION

The University of Texas at Austin May 2024
Master of Science, Business Analytics | GPA: 3.8/4
- Coursework: Natural Language Processing, Deep Learning, Statistical Models, Feature Selection & Extraction, Cluster Analysis, Forecasting, Predictive Modeling, Optimization, Unsupervised Learning, Data Visualization, Marketing Analytics, Finance

National Institute of Technology, Kurukshetra, India May 2021
Bachelor of Technology | GPA: 4.0/4.0 (3rd Rank Holder)

TECHNICAL SKILLS

Languages/Tools: Python, C++, R, SQL, PowerBI, Language and Image Transformer Models, NLP, Git, Docker, Tableau, Agile, A/B Testing
Cloud Technologies: MSFT Azure (Synapse Analytics, Databricks, ADF, Data Lake, MLOps), GCP (BigQuery, Vertex AI), AWS (EC2, Sagemaker)
Libraries: TensorFlow, PyTorch, Pandas, PySpark, scikit-learn, Matplotlib, Gurobi, numpy, HuggingFace, Spacy, Keras, OpenAI, nltk, VADER
Certifications: Applied Data Science - IBM, Data Structures and Algorithms - USC, Google Data Analytics

EXPERIENCE

Dell Technologies Austin, TX
Data Scientist – Intern Jan 2024 – Present
- Reduced the manual workload by 70% by developing automated web scraping pipelines to identify competitor freight prices
- Conducted an analysis to find sensitivity and elasticity dynamics between freight prices and sales, thus achieving higher efficiency
- Collaborated with stakeholders in designing a model to optimize freight costs for Dell across various product lines to save ~$9.5 M

ZS Associates Gurgaon, India
Data Scientist July 2021 – May 2023
- Working with a big4 tech giant, enhanced the recommendation quality and reduced the turnaround time to 2 hours for a sales initiative, by developing an account recommender system using stacked layers of Logistic Regression and K-Means
- Contributed to ~$100 M in sales by enhancing execution strategies leading to the global launch of the sales program by the client
- Improved accuracy by 20% through adding 800K records using fuzzy matching algorithm, identifying similar data from ~200M records
- Contributed to a 20% reduction in data accessibility time through A/B testing, optimizing data table format and visualization solutions
- Achieved a 90% reduction in manual workload by coding python scripts to pre-process data, handle missing values and outliers
- Reached a data latency of 24 hours through the implementation of Databricks ETL in the development of a cloud product
- Ensured data quality and saved 50-man hours per sprint for the team by proficiently designing UAT pipelines in Databricks
- Achieved a 15% decrease in churn rate by publishing PowerBI report and monitoring KPIs to identify & address root causes

Indian Institute of Technology – (BHU) Varanasi, India
Research Intern Jan 2020 – May 2020
- Performed research about the usefulness of ML models in forecasting North India's rainfall and predict monsoon related flood risk
- Trained ML models like Boosting, LSTM and SVMs attaining the best accuracy of ~85% with quadratic optimized SVM model
- Augmented the base models with historical satellite data, feeding past 6-year trends to predict for the current year

DATA SCIENCE PROJECTS

Dover Fueling Solutions – Hackathon (3rd Place), Austin, TX Feb 2024
- Performed Market Basket Analysis, identified association rules using lift and cosine similarity & developed a recommendation algorithm
- Improved customer satisfaction and increased sales through the implementation of a voice chatbot and curated advertisements generated using stable diffusion, integrating suggested products with current promotional discounts

Computer Vision: Parking Spot Analysis, Austin, TX Jan 2024
- Created an algorithm that leverages YOLO 8 object detection model and Intersection Over Union (IOU) area to detect occupied parking spots in real-time from various camera feeds, making the search for empty parking spaces easy and convenient
- Optimized the algorithm to reduce the processing time per frame, thus handling multiple parking spots in a single video feed

From Trailers to Movie Buzz, Austin, TX Nov 2023
- Utilized Azure AI to extract sentiments and video components from 500 drama movie trailers available on YouTube
- Integrated YouTube video descriptions with Azure AI data through LLM & conducted BERT-based topic modeling on the synthesized descriptions, subsequently assessing the sentiment of YouTube commenters for each identified topic

Harnessing the Power of LLMs: Beer Recommender Engine, Austin, TX Oct 2023
- Scraped product descriptions and customer reviews from "*beeradvocate"* using Selenium and Docker through web crawling
- Developed a personalized beer recommender system that utilizes the hidden info (NLP) in product reviews by combining the beer attributes derived from the reviews and strength of positive/negative sentiment derived using Chat-GPT-3 (LLM)