KANISHK GOEL

202-391-4318 | Washington DC | gkanishk1999@gmail.com | [LinkedIn](#) | [Portfolio](#)

EDUCATION

The George Washington University | MS Data Science   Expected May 2025
Relevant coursework: Financial modelling, Deep learning, Time-series analysis, Data visualisation, Data Lifecycle

Ramjas College, University of Delhi | BSc Physical Sciences   June 2021
Relevant coursework: Quantitative analysis, Statistics, Probability, Optimization mathematics, Object-oriented design

SKILLS

Programming/Scripting Languages: Python(pandas, numpy, matplotlib, Tensorflow, Pytorch), SQL (MySQL, NoSQL),

Machine Learning & Applications: R(tidyverse, dplyr, ggplot2), Regression- Supervised and Unsupervised, Neural Networks

Statistical and Analytics Tools: MS office Suite (Word, Excel), Tableau, AWS, STATA, SAS, or SPSS, Matlab, R Studio

Certifications: [Analyze Data by Google](#); [5-Star rating on HackerRank Problem Solving Data structures & algorithms](#)

WORK EXPERIENCE

Milken Institute School of Public Health, Washington DC   Feb 2024 - Present
Data Research Analyst
- Conducted extensive data cleaning using statistical hypothesis testing and transformation to ensure data quality and consistency over 100,000 data points, increasing machine learning model accuracy by 19%.
- Managed data acquisition for over 12 years, ensuring data integrity to build data pipeline and merge data after critical research on resilience energy utility systems.

Madhav Infosolutions, New Delhi   Sep 2021 - July 2023
Data Analyst
- Increased B2B customer retention by 30% by providing responsive after-sales service and troubleshooting. Crafted interactive Tableau/BI analytics dashboards, reports and presentations to communicate findings.
- Developed and maintained SQL queries, data pipelines to automate data extraction, transformation and loading (ETL) processes, helping business users make data-driven decisions and reducing manual effort by 35%.
- Reduced manual work from 8 hours to 2 hours by analyzing and automating data collection process using web scraping techniques with BeautifulSoup and Selenium to get detailed information.
- Collaborated with team of stakeholders to analyse data to respond to business intelligence questions, mitigating risks, provides responses in appropriate format to achieve targeted outcome.

Web Developer (Freelance), New Delhi   July 2020 - Sep 2021
- Enabled business team to achieve 50% reduction in external developer dependency by seamlessly integrating WordPress CMS. Enhanced company's online presence by 67%, contributing to increased revenue by implementing organic optimized SEO efforts using XML, HTML and Javascript.

PROJECT-BASED EXPERIENCE

Bio-Medical Image Segmentation | Pytorch, Deep Learning   April 2024
- Achieved 2% increase in criterion metric (combination of dice loss and IoU loss) by implementing U-Net architecture.
- Compared U-Net model with custom FCN model built on pre-trained VGG16 coupled with upsampling layers.

Road Accident Severity | Python, Machine Learning   August 2023
- Predicted severity results with 87% accuracy by developing, automating and running analytical classification machine learning model based on decision tree algorithm. Developed clustering model on large amount of data from Kaggle.
- Critically evaluated hyperparameters to ensure they are appropriate within context and provides feedback on features.

Sports League (Cricket) Analysis | SQL, Tableau   May 2023
- Managed data analysis project to identify match-winning patterns and develop reports. Used dataset from Kaggle.
- Modelled, collected and cleaned data, for data integrity and accuracy. Formed multiple joins, aggregation using SQL.
- Developed data visualizations to communicate findings and insights using Tableau Desktop.