

Kanishk Goel

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EDUCATION

- George Washington University** | MS Data Science May 2025
Relevant coursework: Deep Learning, AI Modeling, Time Series Forecasting, Cloud Computing
- University of Delhi** | BS Mathematics June 2021
Relevant coursework: Quantitative analysis, Statistics, Probability, Optimization Mathematics

WORK EXPERIENCE

- Milken Institute of Public Health** Feb 2024 - Present
Data Analyst Washington DC
- Conducted extensive data cleaning using statistical A/B testing and transformation to ensure data quality and consistency over 1,000,000 data points, increasing machine learning model accuracy by 19%.
 - Modelled deep learning using ResNet-18 to classify four Aspergillosis-causing species from fungal images, achieving 0.77 F1-score, with bash programming on HPC clusters through data augmentation.
- Development of Alumni Relations GWSB** Sep 2023 - Mar 2024
Data Assistant Washington DC
- Leveraged People Analytics to collect, manage, and maintain alumni data in the Advance database, ensuring data integrity through SQL and relational database management of human resource data.
 - Extracted and analysed alumni data to generate structured reports and Excel deliverables, facilitating strategic decision-making for stakeholders.
- Tally Solutions (Fintech)** Sep 2021 - July 2023
Data Scientist New Delhi
- Collaborated with cross-functional team to gather challenges and translate them to actionable data tasks leading strategic business decision-making, mitigating risks, provided insights with visualizations to achieve outcomes.
 - Increased B2B customer retention by 30% by providing responsive after-sales service and troubleshooting. Crafted product analytics Tableau/BI dashboards, reports and presentations to communicate to clients.
 - Formulate and maintained SQL queries, data pipelines to automate data extract, transform and load (ETL) processes, helping business users make financial decisions and improved risk assessment accuracy.
 - Reduced manual work from 8 hours to 2 hours by analysing and automating financial data collection process using web scraping scripts with BeautifulSoup and Selenium to get detailed information meeting tight deadlines.

PROJECT-BASED EXPERIENCE

- Financial Anomaly Detection (Research Paper)** | PyG, AWS, Machine Learning, GitHub Jan 2025
- Improved fraud recall by 5% by engineering a credit card fraud detection system using Graph Neural Networks trained on 6 million transactions and EC2 instance.
 - Aided decision-making for financial institutions by integrating predictability and explainability techniques to provide risk assessment insights through proper literature review and research.
- Bio-Medical Image Segmentation** | PyTorch, Tensorflow, Deep Learning April 2024
- Deployed and developed computer vision model to achieve 2% increase in criterion metrics using GPUs (CUDA).
 - Compared U-Net model with fine-tuned neural networks based on pre-trained VGG16 coupled with upsampling layers.
- Expense Analysis** | Microsoft Excel, Tableau, SQL August 2023
- Automated expense categorisation and trend analysis by designing dynamic dashboards in Excel to model spending patterns and key performance indicators (KPIs) like monthly trends, and budget variances, improving decision-making by 25%.
 - Demonstrated skills relevant to credit risk analysis and identifying root causes by statistical modelling.

SKILLS

Programming Languages: Python(pandas, Numpy, scikit-learn, Tensorflow, Spark), SQL (MySQL, NoSQL), R
Machine Learning & AI Applications: Airflow, Snowflake, SAS, Linux, R (tidyverse, dplyr, ggplot2)
Statistical and Analytics Tools: MATLAB, AWS (EC2, S3), Google Analytics, Git, Looker, MS Excel, R Studio
Hackathons : George Hacks Health Innovation Hackathon; Booz Allen Equity in Government Services Hackathon
Certifications: Analyze Data by Google; 5-Star rating on HackerRank Problem Solving Data structures & algorithms