

VANITA MEHRA

DATA ANALYST | DATA SCIENTIST | AI & ML ENGINEER

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EDUCATION

Master's in Information Systems (STEM) | City University of New York, NY | GPA: 3.6 May 2025
Master of Business Administration | Guru Gobind Singh Indraprastha University, India | GPA: 3.8 Jun 2016
Bachelor of Commerce | University of Delhi, India | GPA: 2.8 May 2006

EXPERIENCE

Transit Management Analyst Intern | Research Foundation CUNY x MTA | New York Sep 2024 - Jun 2025

- Built ML models in Python including Linear Regression, Decision Tree, Random Forest, SVM, Gradient Boosting, and many more to analyze data, conduct impact analysis, and make predictions.
- Forecasted subway ridership with 85%+ accuracy using ARIMA and SARIMAX models.
- Analyzed the impact of precipitation on subway performance across multiple lines using Python; applied statistical techniques including correlation matrices, Pearson's r , and the Rainbow test; visualized results with scatter and regression plots.
- Examined 10 years of train delay, overtime, injury data, identifying operational inefficiencies that contributed to a 15% reduction in costs.
- Developed 10+ interactive Power BI dashboards visualizing key performance metrics to support executive decisions & improve services
- Automated 4 workflows with SharePoint, JavaScript, HTML/CSS, and Power Automate, cutting reporting time by 40% & boosting communication

Assistant Manager | Genpact | India Apr 2019 - Sep 2020

- Served as Assistant Manager for client Goldman Sachs, overseeing Fraud Analysts and Transaction Monitoring teams.
- Led a high-performing team of analysts, overseeing performance evaluation, task delegation, and professional development efforts.
- Handled client escalations, ensuring prompt, efficient & effective resolution in line with service level expectations consistently
- Prepared & analyzed performance reports using Power BI to identify trends, enhance efficiency, support strategic decision making.

Senior Analyst | Wipro | India Dec 2016 - May 2017

- Led a team of Transaction Monitoring Analysts for a leading Investment Bank, ensuring compliance with AML & operational efficiency
- Utilized advanced smart dashboard applications to continuously monitor workflows, track productivity & optimize resource allocation effectively
- Prepared performance reports using Power BI to visualize key metrics, trends, driving actionable insights supporting strategic

Senior Associate | ACS-Xerox | India Nov 2013 - Aug 2014

- Performed in-depth data analysis & maintained regularly updated databases using MySQL queries for a U.S.-based client
- Designed and successfully generated interactive dashboards in Power BI to visualize key data metrics and business trends
- Delivered valuable, actionable insights through effective data visualization to support client decision-making processes

Senior Team Member | BA Continuum (Bank of America) | India Sep 2008 - Sep 2013

- Created & thoroughly analysed team performance reports; developed interactive dashboards for regular reporting to the Line of Business (LOB)
- Proactively collaborated with senior leadership to identify key performance trends and drive meaningful, impactful operational improvements
- Successfully served as an individual contributor in the role of Fraud/AML Analyst, monitoring & thoroughly investigating suspicious transactions.

Exec Capri-Ops | IBM | India Sep 2006 - Sep 2008

- Monitored and analysed performance data for 5+ teams using advanced Excel, improving metric tracking accuracy by 30%
- Closely tracked KPIs & trends, enabling managers to boost team productivity & achieve a 15% increase in overall efficiency
- Developed and delivered 10+ comprehensive reports and interactive dashboards, providing clear performance insights to stakeholders
- Identified performance gaps and recommended process improvements that reduced bottlenecks and helped teams meet targets 20% faster.

CERTIFICATIONS

- PL-300, Microsoft Certified: Power BI Data Analyst Associate, Jul 2025 | IBM Machine Learning with Python
- IBM Data Science Professional Certificate, Aug 2024

TECHNICAL SKILLS

Libraries & Frameworks: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Tensor Flow, Keras, PyTorch, StatsModels, Hugging Face, NLTK, OpenCV | **AI/ML & Deep Learning:** CNN, RNN, LSTM, BERT, GPT, XG Boost, GBM, Auto encoders, Clustering, Time Series (ARIMA, SARIMAX), A/B Testing - Hypothesis Testing, K-Fold Cross-Validation, r^2 , MSE | **Generative AI/RAG Stack:** Lang Chain, FAISS, Chroma, Tokenization | **Visualization Tools:** Power BI, Tableau, MS Excel | **MLOps & Deployment:** GitHub, CI/CD, Kubernetes, Kubeflow Pipelines, FastAPI | **Databases:** MS SQL Server, PL/SQL | **Programming:** Python, SQL, JavaScript, HTML/CSS | **Automation Tools:** Power Automate, SharePoint | **Cloud & ETL Tools:** AWS, GCP, Sage maker, Airflow, DBT, Docker, SSIS, Alteryx

CORE COMPETENCIES

Predictive & Statistical Modelling | Data Cleaning & Feature Engineering | Business Intelligence & Visualization | Forecasting & Time-Series Analysis | Generative AI Applications | ML Pipelines & Automation | Stakeholder & Executive Reporting | Analytical Problem Solving | Model Development & Evaluation | Cloud-Based Data Engineering | Dashboard Design | Performance Metrics | AI/ML Workflow Optimization | End-to-End Data Pipeline Design | Forecasting & Impact Analysis | Cross-Functional Collaboration | Effective Communication & Presentation | Stakeholder Engagement | Leadership & Mentoring | Adaptability & Continuous Learning | Attention to Detail | Critical Thinking | Time Management | Decision-Making Under Pressure | Fraud Detection & Compliance (AML)