

# DIVYA PANDOVE NARULA

*Uncover Data Insights to Improve Strategic Business Value*

*Strategic Leadership | Machine Learning (ML) & Artificial Intelligence (AI) Strategy | Cross-Functional Collaborations*

**TECHNICAL LEADER, EDUCATOR AND RESEARCHER** with a Ph.D. in ML and data science specializing in leveraging complex data for strategic enterprise improvements.

- Develop predictive models and data-driven strategies to enhance product capabilities and operational efficacy.
- Lead high-performing data science team and foster significant collaborations across cross functional teams, spearheading initiatives that resonate with executives and enhance organizational success.
- Successfully manage relationships with Fortune 100 clients.
- Collaborate with global technical teams to design and implement workflows that enhance AI and data literacy adoption and support upskilling initiatives across the organization.
- Teach statistics, machine learning, and data science fundamentals to data science professionals at the George Washington University.
- Provide technical leadership to LAiSER (Leveraging AI for Skill Extraction and Data Linking) research project working closely with public policy experts on identifying the building blocks of the project and AI/ML engineers and students on implementation.

## AREAS OF EXPERTISE

AI/ML Strategy Development | Predictive Analytics | Data Science Leadership | Statistical Modeling | Cross-Functional Collaboration | Strategic Client Engagement | Business Intelligence Tools | Digital Transformation | Academic Instruction | Curriculum Design | AI for Public Policy | Talent Development | Data Pipeline Optimization | Real-Time Dashboarding | Research & Publications

## PROFESSIONAL EXPERIENCE

**GEORGE WASHINGTON UNIVERSITY | Washington, DC | August 2021–Present**

*Private Federally Chartered Research University*

### ADJUNCT FACULTY

Leverage academic expertise to educate graduate students in data science fundamentals, teaching an "Introduction to Data Science" and "introduction to data mining" courses that encompasses data manipulation, visualization, statistical modeling, and machine learning fundamentals.

- Educate graduate students in data science fundamentals, including data manipulation, statistical modeling, and machine learning.
- Redesigned core curriculum components for enhanced relevance, directly contributing to students' academic and professional growth.
- Supervise semester-long group projects, guiding students through the complete data science project pipeline.

### ASSISTANT RESEARCH PROFESSOR (GWIPP)

- Lead technical operations for the Leveraging AI for Skills Extraction (LAiSER ) and Research project.
- Collaborate with graduate students, AI/ML engineers, and public policy stakeholders to overcome technical bottlenecks and implement AI solutions.
- Supervise workflow and project pipeline, ensuring alignment with project goals.

**FGS GLOBAL | Washington, DC | March 2022–Present***Strategic Advisor for the Stakeholder Economy, Combining Deep Expertise with a Global Reach***MANAGING DIRECTOR, HEAD OF DATA SCIENCE**

Orchestrate expansions and strategic directions of data science and analytics team members, focusing on talent acquisition, internal product development, client management, and integration of innovative AI technologies.

- Built out the data science arm of 600 person company, managing eight data scientists all of whom have been promoted.
- Engineered business intelligence tools, including deploying network influencer tool that generated stable revenues of \$20K-\$30K per client, including several Fortune 500 companies.
- Managed a global collaborative initiative (the US, UK, Germany, and the Middle East), introducing internal AI-driven chatbot that enhanced efficiency by saving 20% weekly on manual tasks.
- Identified and developed six business opportunities for proprietary tools and AI services, with single-use pricing ranging between \$3K and \$5K – amounting to a steady income stream of \$30-\$40K from multiple clients many of which are Fortune 100.
- Revolutionized digital advertising strategies for Fortune 500 clients by implementing strategic measurement and reporting processes, contributing to revenue streams of \$5M-\$7M annually.
- Offered critical insights on AI strategy development that underpinned the firm's strategic competitive positioning in AI space.
- Championed data management best practices implementation to ensure data integrity and alignment with security policies.

**THE GLOVER PARK GROUP | Washington, DC | 2017–2022***Leading Global Strategic Communications and Public Affairs Consultancy, Helping Clients Navigate Complex Environments***DIRECTOR, DATA SCIENTIST**

Steered deployment of business intelligence tools and advanced analytics methodologies, focusing on data science applications to optimize business processes and campaign performance.

- Integrated advanced statistical and ML models into client surveys, providing crucial insights while reducing project costs by 10%.
- Initiated ETL standardization, achieving significant reductions in manual reporting tasks and enhancing productivity across the digital practice.
- Generated KPI-driven insights that expanded optimization opportunities for paid media campaigns, bolstering allocated budget spending efficiency and efficacy.
- Designed real-time, user-centered dashboards that enabled agile and responsive decision-making for business leaders during crisis conditions.
- Conserved thousands of human work hours across the firm for staff and enhanced strategic task focus by implementing real-time media monitoring automation.

**EDUCATION****PH.D.**, Data Science & ML, Thapar University, India

Doctoral Research Topic – "Big Data Clustering Based Recommendation System Model through Correlations"

**Master of Engineering (M.E.)**, Software Engineering, Thapar University, India**B.TECH**, Computer Science, Punjab Technical University, India

## PUBLICATIONS

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- “A correlation based recommendation system for large data sets”, Divya Pandove and Avleen Malhi, Journal of GridComputing 19, pp.1-23, 2021.
- “General Correlation Coefficient Based Agglomerative Clustering”, Divya Pandove, Shivani Goel and Rinkle Rani, Cluster Computing, General Correlation Coefficient Based Agglomerative Clustering”, Divya Pandove, Shivani Goel and Rinkle Rani, Cluster Computing, pp. 1-31, 2018
- “An Intuitive General Rank Based Correlation Coefficient”, Divya Pandove, Shivani Goel, Rinkle Rani, Frontiers of Information Technology & Electronic Engineering (Springer), 19(6), pp.699-711, 2018
- “Correlation Clustering Methodologies and their Fundamental Result”, Divya Pandove, Shivani Goel, Rinkle Rani, Expert Systems (Wiley), 35(1), pp. 12229, 2018
- “Systematic Review of Clustering high-dimensional and Large Data Sets”, Divya Pandove, Shivani Goel, and Rinkle Rani, ACM Transactions on Knowledge Discovery in Data,12(2), pp.16, 2018
- “Local Graph Based Correlation clustering (LGBACC)”, Divya Pandove, Rinkle Rani, and Shivani Goel, Knowledge-Based Systems, SCIE Indexed,138, pp.155-175, 2017
- “Predictive General Rank Based Correlation Coefficient”, Divya Pandove, Grace Hopper Conference (Houston- USA), 2016
- “Prototyping and in-Depth Analysis of Big Data Benchmarking”, Divya Pandove, Shivani Goel, 14th IEEE International Conference on Ubiquitous Computing and Communications, Liverpool, pp. 1222-1229, 2015
- “A Comprehensive Study on Clustering Approaches for Big Data Mining”, Divya Pandove, Shivani Goel, International Conference on Electronics Communication Systems, IEEE, pp. 1333-1338, 2015
- “Cyber Laws in IT Industry: A Survey on Awareness”, Divya Pandove, Shivani Goel, International Conference on Changing Perspectives paradigms in business and behavioral sciences, pp.132-134, 2014
- Masters’ Thesis titled “Designing an Interface for Effective Retrieval of Components” based on the concepts of software reuse. It involved designing an interface to test the effectiveness of the system.