VIVEK MOHAN

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EDUCATION

Economics, Specialization: Statistics & Econometrics
M.A.,
2017

SKILLS & EXPERTISE

- **Programming & Analytics:** Python (Pandas, NumPy, Matplotlib, Plotly), SQL
- **Visualization Tools:** Tableau
- **Machine Learning:** Supervised & Unsupervised ML, Model Evaluation
- **Data Skills:** Cleaning, Feature Engineering, Statistical Analysis, Reporting

ADDITIONAL

PROFESSIONAL SUMMARY

Data Scientist with hands-on experience in Python, SQL, and machine learning, supported by a strong academic foundation in Statistics and Econometrics. Skilled in data wrangling, exploratory analysis, visualization, and building predictive models to solve real-world problems. Gained comprehensive exposure to end-to-end data science workflows through the Master's Program, strengthening analytical confidence and practical capabilities. Seeking a challenging role in Data Science, Machine Learning, or Data Analysis where I can apply my skills, contribute to impactful projects, and continue advancing my professional growth.

CERTIFICATIONS

1. Masters Program - Data Scientist : Simplilearn Certified in collaboration with IBM - 2025
- Data Science with Python, R
- Advance Machine Learning
- Tableau 10
- Big Data Hadoop & Spark Developer
- SQL Training
- Data Science Capstone

2. Other Certifications -
- Google Data Analytics Certification - 2023
- Data Science Bootcamp - Udemy - 2025

WORK HISTORY

Directorate of Economics and Statistics - Intern, Dehradun, India
- Designed structured survey questionnaires to capture socioeconomic, demographic, and household-level indicators in rural regions.
- Conducted village-level primary data collection through field visits, interviews, and coordination with local administrative bodies.
- Cleaned, transformed, and validated large datasets to ensure accuracy, consistency, and readiness for statistical analysis.
- Analyzed socioeconomic data to identify key trends, patterns, and regional disparities, supporting data-driven decision-making.
- Developed visualizations and reports for state-level planning and policy formulation, collaborating with senior statisticians to convert raw findings into actionable insights.

INFORMATION

- **Languages :** English & Hindi.
- **Soft Skills :** Problem-Solving, Communication, Time Management, Analytical Thinking, Team Collaboration, Flexibility, Attention to Detail.
- Interests : Poetry, Bird Watching, Trekking.

PROJECTS

- **Predictive Modeling for Socioeconomic Indicators**
  Developed machine learning models (Regression, Classification, Random Forest, etc.) to forecast demographic and behavioral trends. Evaluated model performance using metrics such as RMSE, accuracy, and R^2 to guide feature selection and model tuning.

- **Statistical & Econometric Analysis**
  Conducted in-depth statistical tests including hypothesis testing, correlation analysis, ANOVA, and multivariate regression. Applied econometric techniques to understand causal relationships and quantify the impact of key variables.

- **Data Visualization & Dashboard Development**
  Created interactive dashboards and visual stories using Python (Matplotlib, Plotly) and Tableau to communicate insights to non-technical stakeholders. Focused on summarizing complex data into clear, decision-oriented visuals.

- **End-to-End Data Pipeline Implementation**
  Built workflows involving data extraction, preprocessing, analysis, model development, and report generation. Ensured reproducibility and scalability through well-structured scripts and documentation.