

Vaishnavi Ratheesh Nair

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Data Scientist with over 2 years of experience in statistical analysis, machine learning, and dashboard development, and skilled at transforming complex datasets into actionable insights. Extensive experience in automating workflows, optimizing KPIs, and driving strategic decisions across telecom, education, and nonprofit sectors.

Education

University of Maryland Baltimore County, United States

MS Data Science, GPA 3.88

08/2023 - 05/2025

Maharashtra Institute of Technology, India

B.Tech Electronics and Communications

07/2017 - 06/2021

Skills

- **Programming & Analysis:** Python, SQL, R, Pandas, NumPy, Python-based scripting, Matplotlib, Seaborn, Scikit-learn, Statsmodels, NLTK, BeautifulSoup, APIs, Jupyter Notebooks, Streamlit, Flask
- **Data Platforms & BI Tools:** Tableau, Power BI, Looker, MySQL, PostgreSQL, Snowflake, Google BigQuery
- **Workflow & Productivity:** MS Excel, Google Sheets, PowerPoint, JIRA, Confluence, Git, AWS, GCP (BigQuery), HubSpot

Experience

Asian Student Achievement(ASA)

Data Analytics Intern

07/2025 - Ongoing — United States

- Collect, clean, and analyze multi-source datasets, including demographic surveys with **200+** participants, social media metrics, and website traffic using Google Sheets (**XLOOKUP, Pivot Tables**), Excel, and Python.
- Design interactive dashboards in **Tableau** and **Google Data Studio** to visualize engagement trends and demographic insights, improving cross-functional decision making.
- Apply **statistical methods** and **machine learning techniques** in **Python** to uncover behavioral patterns and correlations, directly informing targeted marketing and outreach strategies.
- Maintained and updated constituent records in **GiveSmart CRM** to streamline event coordination and communication workflows.

UMBC- Chemical, Biochemical & Environmental Engineering

Analytics Intern

02/2024 - 06/2024 — United States

- Consolidated student advising and course enrollment data from multiple Excel sheets into a single Excel tracker using **XLOOKUP** and data validation, improving data accuracy and cutting lookup time for staff.
- Built **pivot tables** and charts that summarized enrollment trends and faculty course loads, enabling the department chair to make data-driven scheduling decisions.
- Created a dashboard in **Power BI** that visualized scholarship distribution and student demographics, shared at monthly administrative meetings.

Vodafone Idea Limited

Data Analyst

07/2021 - 07/2023

- Developed and maintained **Power BI** and Tableau dashboards to track network health and customer usage **KPIs**, enabling real-time performance monitoring.
- Automated recurring reports using **SQL** and **Excel VBA**, reducing manual **workload by 40%** and improving reporting efficiency across operations.
- Conducted root cause analysis on service outages and anomalies using Python and SQL, **cleaned and validated 1000+ row datasets** from CRM and network logs to drive cross-functional improvements.

Devise Electronics Pvt. Ltd.

Business Analyst

01/2021 - 06/2021

- Built 5+ interactive dashboards in **Tableau** and **Power BI** to visualize project KPIs and forecast budgets across departments, improving reporting clarity and stakeholder engagement.
- Delivered **10+ ad hoc reports and visualizations** to senior leadership, directly supporting strategic decisions on resource allocation and project prioritization.
- Automated data extraction and cleansing workflows using Python scripts, reducing manual processing time by **30%** and increasing reporting accuracy across 3 data sources.

Tech Mahindra

Data Analyst Intern

11/2019 - 01/2020

- Developed **interactive Tableau** dashboards to replace outdated Excel reports, improving **accessibility, consistency**, and reducing **reporting turnaround time by 40%** while minimizing **KPI errors**.
- Partnered with operations, management, and non-technical stakeholders to gather requirements and deliver real-time, goal oriented visualizations that supported strategic decision-making.

Academic Projects

Book Recommendation System:

- Developed a mood-based book recommendation system using Hugging Face Transformers for sentiment analysis and ChromaDB for efficient data storage and retrieval.
- Implemented sentiment and mood classification to match books with user emotions, leveraging Flask for backend operations and Streamlit for user interface design.
- Utilized cosine similarity to recommend books with similar emotional tones based on mood classification.

Malware Detection Using Machine Learning:

- Developed a machine learning-based malware detection system using Decision Tree, Random Forest, and Logistic Regression algorithms.
- Conducted data preprocessing, including handling missing values, outliers, and class rebalancing using SMOTE.
- Improved model performance through feature extraction with Extra Tree Classifier and evaluation using precision, recall, and F1-Score metrics.

House Rent Prediction:

- Developed a House Rent Forecasting model using Linear Regression, predicting rental prices based on features such as house size, floor, city, and furnishing status.
- Data preprocessing, including cleaning, feature engineering, and exploratory data analysis (EDA) to improve model accuracy.
- Utilized Python, pandas, scikit-learn, and matplotlib for data manipulation, visualization, and machine learning model development; sourced data from Kaggle.

Certifications

Introduction to Data Science-Cisco Networking Academy [Show Credential](#)

- Developed skills in data collection, storage, management, and exploratory analysis, to analyze trends and solve real-world problems across industries like business, healthcare, and education.
- Learned to complete tasks like interpreting data trends, optimizing data pipelines, and contributing to data-driven projects. Gained valuable guidance on building a successful career in data roles, with practical insights to navigate and excel in the data-driven industry.

Data Analytics and Visualization Job Simulation-Accenture [Show Credential](#)

- Completed a simulation focused on advising a hypothetical social media client as a Data Analyst at Accenture.
- Cleaned, modeled, and analyzed 7 datasets to uncover insights into content trends and inform strategic decisions.
- Prepared a PowerPoint deck and video presentation to communicate key insights for the client and internal stakeholders.