NIRVIKA RAJENDRA

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LinkedIn | GitHub | LeetCode | Portfolio

EDUCATION

University of Maryland, Baltimore County — January 2024 - December 2025
Master of Professional Studies in Data Science - GPA: 3.9/4 — Maryland, USA

Dayananda Sagar Academy of Technology and Management, India — August 2017 - July 2021
Bachelor of Engineering in Computer Science and Engineering - GPA: 8.72 / 10 — Karnataka, India

SKILLS

Languages: SQL, Python, Excel
Visualization: Power BI, Tableau, Excel Dashboards, Matplotlib, Seaborn, Plotly, Scikit-learn, Statsmodels
Databases: SQL Server, MySQL, SQLite
Tools & Cloud: Azure, Git, Hadoop, Spark, CI/CD (Azure DevOps, Octopus Deploy)
Analytics: KPI Tracking, ETL, Statistical Analysis, Data Modelling, Dashboard Development, Data Cleaning, Process Automation
Certification: Google Advanced Data Analytics (2025) *Link*

WORK EXPERIENCE

University of Maryland Baltimore County — January 2026 - Present
Data Technician (Digital Scholarship Services, Albin O. Kuhn Library) — Remote

- Applied Python and analytical skills to assess, validate, and detect anomalies in scholarly datasets, ensuring high accuracy.
- Automated data cleaning and pre-processing pipelines, reducing manual effort and improving consistency for ScholarWorks@UMBC ingestion.
- Maintained reliable, structured datasets to enable institutional reporting, research visibility, and scalable data operations.

University of Maryland Baltimore County — June 2024 - December 2025
Digital Analyst (Digital Library Repository) — Baltimore, MD

- Managed and refined 10K+ MD-SOAR records, ensuring data integrity, metadata compliance, and improved research discoverability.
- Developed Python and Excel pipelines to convert, validate, and standardize metadata (Dublin Core), while producing dashboards for 50+ faculty and administrators, reducing manual effort by 70% and supporting institutional reporting and governance.

LTIMindtree — August 2021 - November 2023
Software Engineer (Data Systems) — Bengaluru, India

- Developed backend services and data APIs for real-time financial analytics dashboard by implementing RESTful APIs using ASP.NET Core Web API and complex LINQ and Entity Framework Core queries, improving execution time by 45%.
- Designed and built secure microservices with JWT authentication, cutting security risks by 70% and creating reliable, fault-tolerant backend services.
- Built REST APIs, both synchronous and asynchronous, to handle high-volume transactions, improving system responsiveness, scalability, and overall reliability.
- Designed and deployed CI/CD pipelines with Octopus Deploy, Git, and Azure DevOps, enabling biweekly zero-downtime releases and cutting deployment time by 40%.
- Performed unit and integration testing with NUnit, and API validation and regression testing with Postman, boosting test coverage and improving code reliability by 40%.
- Worked in Agile/Scrum teams using Jira and TFS for sprint planning, tracking, and code reviews, consistently achieving 100% on-time sprint delivery.
- Resolved production issues by debugging backend services, implementing logging, and collaborating with Agile Scrum teams to reduce post-deployment defects.

PROJECTS

Predicting Student Start-up Success *GitHub*

- Conducted EDA and predictive analysis on 2,100+ start-up records, identifying funding and mentorship as key success predictors, improving insight accuracy by 25%.
- Built and evaluated machine learning models using Scikit-learn, deployed an interactive Streamlit dashboard to present results.

LinkedIn Job Market Analysis *GitHub*

- Designed an end-to-end data pipeline to collect, clean, and process 1.3M+ job listings, storing data in HDFS and using SQL and Spark to analyse hiring trends, skill demand, and role distribution across 20+ industries.
- Built interactive Power BI dashboards visualizing salary trends and industry growth, empowering 100+ stakeholders, conducting trend and gap analyses to support data-driven hiring and strategic decisions.

Portfolio and Volatility Modelling *GitHub*

- Analysed portfolio data to model volatility and optimize risk-return ratios, improving prediction accuracy by 25% using Random Forest regression, and automated performance tracking for 50+ clients to accelerate insights.
- Developed interactive Gradio dashboards for real-time simulation of investment scenarios and market risk exposures.