

NIKITA RAVI

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EDUCATION

The George Washington University, Washington, DC, Master of Science in Data Analytics Expected May 2026
Dayananda Sagar College of Engineering, Bangalore, India, Bachelor of Engineering in August 2017 - August 2021
Computer Science and Engineering

EXPERIENCE

Digitalsoft AI Solutions India Pvt Ltd, Bangalore, India, Associate Data Engineer September 2022 - July 2024

- Optimized database performance by leading the migration from NoSQL to SQL, revamping schemas, and reducing operational costs by 30%.
- Developed a Kanban/Swimlane dashboard to enhance user experience, implementing intuitive UI components and backend logic for seamless document management.
- Implemented a role-based authentication system in AngularJS, improving data security and access control for diverse user roles.
- Collaborated with engineers and project managers to analyze user data logs to identify trends in feature usage, leveraging insights to prioritize high-impact features, boosting customer satisfaction and revenue.
- Improved query performance by 25% through database optimizations, ensuring faster data retrieval and a smooth user experience.
- Leveraged data visualization techniques in Tableau to present actionable insights on feature adoption, customer engagement, and system performance.

Bio Environment Services Technology LLC, Dubai, United Arab Emirates, Information April 2022 - June 2022
Technology Engineer

- Revamped website architecture by leading website development and debugging efforts, resulting in a 20% increase in online sales within the first month.
- Independently designed and implemented an automation process that streamlined customer service operations, reducing manual workload by 60%.
- Diagnosed and resolved critical technical issues, ensuring a seamless workflow and uninterrupted business operations.

ACADEMIC PROJECTS

NYC Taxi Data Analytics November 2024

- Developed predictive models for trip duration, fare amount, tip percentage, and payment type using Random Forest and Gradient Boosting, achieving an R^2 of 76.7% for trip duration predictions.
- Identified congestion hotspots and peak demand hours through geospatial analytics, aiding urban traffic management.

Loan Performance Data Analysis – Fannie Mae December 2024

- Analyzed 10M+ loan records using PySpark and Dask, optimizing data processing efficiency for financial trend analysis.
- Developed a robust ETL pipeline to clean, merge, and transform loan performance data, reducing processing time by 50%.
- Visualized key trends in FICO scores, delinquency rates, and loan defaults using Seaborn and Matplotlib, aiding financial decision-making.

Predictive Capability of Classifiers for Heart Disease Detection (Team of 3) November 2020 - June 2021

- Conducted machine learning research on heart disease detection classifiers, achieving an accuracy of 87%.
- Performed rigorous data cleaning, processing, and feature engineering to improve model performance.

Hotel Booking Website (Team of 3) September 2022

- Developed a fully functional hotel booking system using HTML, JavaScript, MySQL, and PHP.
- Led database management efforts, ensuring seamless booking processes and transaction integrity.

TECHNICAL SKILLS AND RELEVANT COURSEWORK

Python, SQL, R, HTML, C, JavaScript, TensorFlow, Matplotlib, Pandas, NumPy, Data Visualization, PySpark, Dask, Scikit-learn, Tableau, MySQL Databases, Predictive Modeling, Time Series Analysis, Data Cleaning & Processing, Feature Engineering, Machine Learning, Neural Networks, Exploratory Data Analysis, Statistical Data Analysis, Jupyter Notebooks, Google Colab, Microsoft Excel

PUBLICATIONS

"Further Study on the Identification of Predictive Capability of Classifiers for Early Heart Disease Detection Using Machine Learning", IJRAMT, Jun. 2021