Atharva Deshmukh

ad2546@rit.edu 5859106910 in/atharva-deshmukh-a35a46186

SUMMARY

Master's student in Information Technology and Analytics at RIT, skilled in data science, machine learning, and data visualization. Experienced with Python, SQL, Tableau, and Power BI. Looking to leverage my analytical and technical skills in an on-campus role.

SKILLS

Data Analysis Tools: Python (Pandas, NumPy, Matplotlib, Scikit-learn), SQL, Tableau, Power BI, MS Excel (advanced).
Programming Languages: Python, SQL, R, Java.
Databases: MongoDB, Neo4J, MS SQL Server, Oracle SQL, JDBC.
BI and Visualization Tools: Tableau, Looker, Power BI, MS Excel.

EXPERIENCE

Rochester Institute of Technology
Teaching Assistant **Aug 2024 - Current, Rochester, NY**
- Facilitated classroom discussions on ethical issues in technology, encouraging critical thinking and active participation among students.
- Assisted in grading assignments, projects, and exams, providing constructive feedback to students to improve their understanding of ethical principles in computing.
- Developed and led tutorial sessions on data privacy, AI ethics, and intellectual property, enhancing students' grasp of real-world ethical challenges.
- Collaborated with the course instructor to design and update course materials, ensuring they reflect current ethical standards and technological advancements.
- Provided one-on-one support to students during office hours, helping them navigate complex ethical scenarios in their coursework.

Dark Horse Digital Solutions
Software Consultant **June 2021 - July 2023, Mumbai, India**
- Analyzed and streamlined data pipelines for insurance companies, leading to a 30% reduction in processing time through automation and data-driven process improvements.
- Conducted advanced data analysis on large SQL datasets, delivering actionable insights that improved client satisfaction and aligned business strategies.
- Consulted clients by conducting detailed feasibility analyses, modifying and creating optimized Business Design Patterns, and translating non-technical needs into technical systems.
- Optimized data-driven business processes, achieving a 10% increase in efficiency by implementing advanced data analysis techniques and collaborating with cross-functional teams.
- Reduced iteration times and maintenance costs for projects by 50% and enhanced overall process stability by 75% through constant system status monitoring.
- Designed and implemented a scalable ETL process that processed over 1TB of data daily, achieving a 20% reduction in processing time.

Vivekanand Education Society's Institute of Technology
Product Development Intern **May 2020 - July 2020, Mumbai, India**
- Developed an Android application to enhance parent-student interaction, increasing communication by 30% within three months.
- Executed comprehensive surveys from over 500 participants, contributing to a user-friendly product with a 4.8/5 satisfaction rating.
- Collaborated with a cross-functional team of 10, ensuring 95% on-time delivery of project milestones.
- Conducted in-depth data analysis, resulting in strategies that grew parental involvement by 50%.
- Initiated a sustainable development approach by transitioning the project to new interns, increasing sustainability and engagement metrics by 20%.

EDUCATION

Rochester Institute of Technology
Masters of Science in Information Technology and Analytics • Rochester, NY • 2025 • 3.67 / 4
- Content: Visual Analytics, Foundation of Data Science and Analytics (ML), Non-Relational Data Management, Information Retrieval, Data Mining, Information Assurance Fundamentals.

University of Mumbai
Bachelor of Engineering in Computer Engineering • Mumbai, India • 2021 • 7.4 / 10
- Content: Artificial Intelligence, Software Engineering, Machine Learning, Analysis of Algorithms, Data Warehousing.

PROJECTS

Leveraging Text Mining in Telecom Churn Prediction
Rochester Institute of Technology • January 2024 - May 2024
- Developed a predictive model to analyze telecom customer churn using Natural Language Processing on unstructured data, resulting in a 12% increase in prediction accuracy compared to traditional methods.
- Implemented Natural Language Processing on customer reviews to predict churn, achieving 12% better accuracy compared to traditional methods.
- Visualized results using Tableau, effectively communicating insights.

Leveraging Visual Analytics to Optimize the Healthcare System in the State of New York
Rochester Institute of Technology • January 2024 - May 2024
- Conducted data analysis and visualization using Microsoft Power BI to identify inefficiencies in New York State's healthcare system, leading to a 12% reduction in operational costs through data-driven recommendations.
- Visualized the content mentioned in bullet 1 using Microsoft Power BI after extracting the dataset from the New York State Health Department's website.
- Presented visualizations and analyses to stakeholders, leading to actionable insight.