SANJAY BHAGAT

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EDUCATION

Master of Science in Applied Data Science | Syracuse University | GPA: **3.9/4.0**   **January 2023 – Present**
Bachelor of Engineering in Electronics Engineering | Mumbai University   **August 2015 – May 2019**

PROFESSIONAL EXPERIENCE

United Nations, New York City, USA | *Data Science Intern*   **June 2023 – August 2023**
- **Data Analysis and Decision-Making**: Improved decision-making and resource allocation in 193 countries by analyzing healthcare data, contributing to more effective policy adjustments.
- **Workflow Optimization and Efficienc**y: Enhanced efficiency by reducing report generation time by 20% through workflow optimizations and streamlining data reporting processes.
- **Data Visualization and Collaboration**: Delivered actionable insights by developing data visualizations and collaborating with cross-functional teams, resulting in better-informed healthcare project outcomes.

Capgemini, Mumbai, India | *Data Analysis and Integration Specialist – North America*   **August 2019 – December 2022**
- **Data Pipeline and Workflow Automation:** Directed data integration initiatives across healthcare and manufacturing, achieving a 20% revenue increase, by leveraging Boomi for ETL processes and employing Python script for data analysis and automation.
- **Data Governance and Quality:** Conceptualized over 100+ Boomi integration processes, significantly improving data integrity and consistency, by utilizing Python and SQL for precise data cleaning, validation, and integration with key ERP and cloud systems.
- **Data Visualization and Reporting:** Designed NetSuite data reporting by developing Tableau dashboards, enhancing decision-making accuracy by 15% in scenarios like integrating NetSuite financial data with Salesforce CRM for a more comprehensive customer and financial analytics view.
- **Leadership in Production Support and Data System Enhancement**: Mentored production support system, by leading root cause analysis and strategic data/code fixes, significantly enhancing system functionality and resilience by 30%.
- **Collaborative Projects and Cross-functional Teams:** Facilitated collaborative project outcomes by leading a cross-functional team involving the finance department, where I applied data analytics to revamp budgeting processes. This initiative resulted in a 20% increase in budgeting accuracy and a 15% reduction in unnecessary expenditures.
- **Continuous Skill Enhancement and Knowledge Sharing:** Committed to ongoing professional development, by pursuing courses in GCP, Apache Spark, AWS, PowerBI, and conducting workshops for new joiners on data integration and analytics tools. This dual approach has significantly enhanced my data science acumen and contributed to the skill-building of the team.

RESEARCH PROJECTS

Statistical Analysis of Musculoskeletal Symptoms: Study in Divers | **Sion Hospital, Mumbai**   **August 2019 – May 2020**
- **Data Visualization and Predictive Analytics:** Used Tableau and Excel to improve training efficiency by 40% and leveraged Python's SciPy/NumPy to boost recovery rates by 60% through data-driven insights.
- **Statistical Injury Prevention:** Applied regression analysis and ANOVA to identify trends in diving injuries, leading to customized preventive strategies.

ACADEMIC PROJECTS AND PUBLICATION

Road Structural Health Monitoring and Analysis   **August 2017 – May 2019**
- **Prediction and Data Analysis**: Utilized IoT sensor technology and Python for mapping and analyzing over 2000+ Km of roads. Integrated Machine Learning algorithms and Google Maps API for precise maintenance planning and geospatial analysis.
- **Data Preprocessing and Visualization:** Developed sophisticated data preprocessing workflows and accurate predictive models using Random Forest, significantly improving road assessment accuracy. Utilized Python and Jupyter for data processing, analysis, and interactive visualizations.

Deep Learning for Gestational Diabetes Prediction | Collaborative Project with Fetal Life   **August 2023 – December 2023**
- Devised a deep learning model with autoencoder and classifiers, attaining 97% accuracy in predicting gestational diabetes.
- Led data preprocessing with KNN imputation, feature scaling; exploited SHAP analysis for comprehensive, insightful prediction.
- Utilized TensorFlow and Keras for neural networks with dropout layers to prevent overfitting, and early stopping for optimization.

TECHNICAL SKILLS

- Programming languages: Python, R, SQL, PLSQL, JavaScript, Java
- Libraries/Tools: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, Matplotlib, Seaborn, Apache Spark, Hadoop, Github, VS Code, Jupyter Notebook, SQuirreL SQL Client, MS Excel, R studios, Azure Data Studio, Tableau, Adobe, Power BI
- Course/Certification: Machine Learning Specialization Deeplearning.AI, SQL for Data Science, Statistics for Data Science with Python, IBM Data Science, Python Data Structures, Harnessing the Power of Data with Power BI, and Excel 2019 Associate

LEADERSHIP

- **Innovative Leadership in Hackathons**: Achieved 1st Runner-Up in the Dell Boomi - Capgemini Hackathon 2021 by leading the development of a restaurant management system using OCR technology, enhancing automation and operational efficiency.
- **Excellence in Competitive Technology Challenges**: Outperformed 7000+ participants to become a finalist in the TCS EngiNX IoT Challenge 2017 with a vehicular health monitoring project, earning a grant and internship for prototype development.
- **Leadership in Robotics and Team Management**: Led the 30-member Sardar Patel Robotics Committee (SPRAC) in 2018, implementing data-driven design optimization strategies and fostering collaboration, advancing robotics innovation at ABU-Robocon.