DEVASHISH U. SONAWANE

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EDUCATION

University Of Southern California, Viterbi School of Engineering, Los Angeles, California   Aug 2023 – May 2025
M.S. Healthcare Data Science
Relevant Coursework: Machine Learning for Data Science | Foundations of Data Management | Foundations and Applications of Data Mining | Data Visualization | Analysis of Algorithms | Security Systems and Privacy

D.Y. Patil University | School of Biotechnology and Bioinformatics, Navi Mumbai, India   Jun 2017 – Jul 2022
Master Of Technology: Biotechnology
Relevant Coursework: Biological Data Retrieval and Analysis | Biostatistics | Phyloinformatics | Structural Bioinformatics | Computational drug modeling and design | Perl

TECHNICAL SKILLS/CERTIFICATIONS

1) Programming Languages: Python, R, Perl, SQL, MATLAB, HTML, Visual Basic
2) Software: Tableau, MS Excel, MS Word, MS PowerPoint, Adobe Illustrator, Adobe Premiere Pro, Adobe Photoshop, Google Suite, iWork, Jupyter Notebook
3) Certifications: • Python Programming for Everybody | University of Michigan   August 2021
                              • Google Data Analytics Professional Certificate | Google   September 2021

WORK EXPERIENCE

Research Assistant, Indian Council of Agricultural Research: Central Institute of Fisheries, Mumbai, India   Dec 2021 – Aug 2022
- Synthesized 3 conjugated nanoparticles by implementing a new stabilizing method which increased the extraction by 20%
- Managed Zebrafish lab housing more than 4000 live fish specimen by breeding & maintaining the ammonia, nitrate, nitrite, oxygen and feeding levels which reduced mortality rate by 15%
- Performed a comparative statistical analysis on the genotoxicity data obtained by using SAS to highlight the potential impact of nanoparticles on freshwater and marine ecosystems
- Contributed to ongoing DNA Barcoding studies on various species of fish by teaching DNA extraction to new interns
- Research work soon to be published

Tissue Engineering Research Intern, BioLim Centre for Science and Technology, India   Aug 2021 – Sept 2022
- Developed research designs addressing the economic and social challenges faced in commercial production of artificial meat
- Created daily reports and presentations for senior scientists by performing literature mining and analysis
- Assisted clients with Patents and publishing research by streamlining the process and improving the efficiency

Social Media Analyst Intern, Save The Paws, Mumbai, India   Sept 2021 – Feb 2022
- Performed Statistical Analysis of Engagement across the organization's Social Media Profiles and introducing revolutionary changes in the workflow which increased the number of followers by 14.23%
- Conducted analysis on type of content preferred by audience and optimized the type, frequency, and timing of posts which resulted in more engagement by increment in comments, replies, and reactions to posts
- Provided guidance to people and promoted adoption of stray animals by handling the social media accounts of this NGO

PROJECTS

MarketDrift: Unveiling Stock Waves - A Comprehensive Analysis of Top 5 Stocks Pre and Post COVID-19   November 2023
- Scraped historical and financial health data of Goldman Sachs, Morgan Stanlet, JPMorgan Chase, Bank of America, and Citigroup from Yahoo Finance and implemented a machine learning algorithm to predict stock performance trends during and after COVID-19 Pandemic.
- Produced insightful reports detailing the historical and post-pandemic performance of the selected top 5 stocks and enhanced decision-making processes by offering a nuanced understanding of market dynamics.

LEADERSHIP EXPERIENCE

Class Representative, M.Tech Inegrated Batch of 2022, D.Y. Patil University   Jun 2017 - Jan 2022
- Acted as voice of the class for 5 years, advocating for student concerns and needs to faculty and administration
- Organized and managed class-wide projects and initiatives, including fundraisers, social events, and volunteer activities