Kiran Mayee Bellam

Bioinformatician | Data Specialist

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L Newark, New Jersey

SUMMARY

Dynamic and results-driven data scientist with 2 years of professional experience and a strong foundation in bioinformatics, coupled with a passion for transforming the pharmaceutical industry through data-driven solutions. Proficient in analyzing complex genetic sequences, molecular structures, and omics data to drive breakthroughs in drug discovery, clinical trial optimization, and personalized medicine. Skilled in advanced data analysis, machine learning, and visualization techniques, delivering actionable insights that accelerate innovation and improve healthcare outcomes. Adept at leveraging tools like Python, SQL, and Tableau to develop robust data infrastructures and impactful dashboards. Eager to contribute to the intersection of data science and healthcare innovation, using proven expertise to make a tangible difference in human health and well-being.

EXPERIENCE

Data Executive

Sharda University

03/2022 08/2023 Delhi, India

- Analyzing company data using Excel (Power Query, Pivot Tables) for data cleaning and summarization
- Developed Tableau dashboards to report key metrics and trends, supporting data-driven decisions.
- Built and optimized data infrastructures, leveraging SQL for efficient querying and reporting..
- Conducted detailed customer behavior analysis, developing targeted marketing strategies that increased sales by 53%, impacting a focused audience of 2,000 high-value customers. By tailoring strategies to this specific segment, achieved deeper engagement and more precise outcomes compared to broader, less targeted campaigns.

Intern

ICGEB

12/2020 04/2021 Delhi, India

- Conducted bioinformatics-based sequence analysis of DHPS and Lysyl tRNA synthetase enzymes across multiple species.
- Established phylogenetic relationships using tools like CLUSTAL OMEGA, PLIP, and CHIMERA under the supervision of Dr. Amit Sharma..

Intern

Centre of Innovation in Infectious Disease Research, Education, and Training (CIIDRET)

05/2019 07/2019 Delhi, India

- Optimized plasmid isolation strategies using PEG precipitation and column methods.
- Conducted protein separation experiments, preserving molecular weight using SDS-PAGE under the supervision of Dr. Vijay K. Chaudhary.

EDUCATION

B.Tech + M.Tech in Biotechnology

Amity Institute of Biotechnology, Amity University

09/2016 05/2021 Delhi NCR, India

Master of Science in Bioinformatics

New Jersey Institute of Technology

09/2023 12/2024 Newark, New Jersey

PROJECTS

Medical Image Classification

- Developed CNN models for disease diagnosis from chest X-rays (e.g., pneumonia, COVID).
- Utilized data augmentation and transfer learning to achieve high diagnostic accuracy.
- Leveraged Python, TensorFlow, and PyTorch for model training and evaluation..

NeuroPulse: Analyzing Drug Effects on Neuronal Spike Rates in Parkinson's Disease

- Analyzed neuronal spike rates in Parkinson's disease using Python, focusing on neural data from .fif files.
- Processed MEG/EEG data with noise reduction and signal filtering techniques.
- Integrated patient metadata and drug administration details from EDC forms.
- Conducted statistical analysis and visualized results with spike rate plots and histograms

KEY ACHIEVEMENTS

Targeted Analysis

Conducted targeted customer behavior analysis, leading to a 53% increase in sales by engaging a focused audience of 2,000 high-value customers.

Optimized Workflows

Automated web scraping processes and data extraction using R and Python, enhancing efficiency and enabling streamlined data collection for research.

SKILLS

R	HTML5	Python	C
Scikit-learn		MySQL	
Java	CSS	Seaborn	Matplotlib
HuggingFace	GCP	Streamlit	Flask
Github	ETL	EDC	Tensorflow
Tableau	NGS	DESEQ	Biopython

PUBLICATIONS

Research Paper- Open Publication

"Non-Receptor Type PTPases and Their Role in Controlling Pathways Related to Diabetes and Liver Cancer Signalling" - Journal: Bentham Science, Published on Feb 28th, 2024