**HARPREET KAUR**

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**PROFESSIONAL SUMMARY**

Experienced Bioinformatician skilled in Machine Learning, genomics, data collection, analysis, and visualization. Collaborative team player adept at thriving in fast-paced environments. Proficient in Python (with Libraries) and SQL, with a foundational understanding of R, complemented by an MSc in Systems Biology and Bioinformatics.

**SKILLS**

* SQL
* Python
* Statistical Analysis (regression models, cluster or factor analysis)
* Tableau (Beginner)
* Molecular Biology
* R Studio with Libraries
* Research
* Artificial Intelligence (AI)
* Machine Learning (ML)

**RELEVANT WORK EXPERIENCE**

**Programming Instructor- Python & SQL**11/2022 – 12/2023

*Aptech Learning Institute, Punjab, India*

* Taught Python Programming Language & SQL to diverse groups of learners, ranging from beginners to advanced levels.
* Incorporated Python libraries such as NumPy, Pandas, Matplotlib, and Seaborn into course content to teach data manipulation, analysis, visualization, and machine learning techniques.

**OTHER WORK EXPERIENCE**

**Medical Lab Technician** 08/2018 – 07/2020

*ICON Diagnostic Labs, Punjab, India*

**PROJECTS**

**Transcriptome Data Analysis 2022**

* Spearheaded the identification of prognostic markers by utilizing R Studio and its libraries to preprocess, analyze, and visualize transcriptome data.
* Employed Protein Data Bank (PDB), GenBank, and DrugBank databases to enrich the analysis by integrating protein structures, genetic sequences, and drug-related information

**Computational Aided Drug Designing 2016**

* Identification of drug against promising target-insulin-like growth factor-1.
* Utilized computational drug design methodologies including molecular docking, hex, AutoDock Vina in order to bind ligand to receptor.
* Calculated ADMET properties using Molinspiration according to Lipnski’s rule of five.

**EDUCATION**

**MSc in Systems Biology and Bioinformatics** *(Canadian Equivalency: Masters)*  09/2020 – 08/2022

Punjab University, Chandigarh

**Computer Application- Post Grad Diploma,** 07/2017 –06/ 2018

Punjab University, Chandigarh

**BSc in Bioinformatics** *(Canadian Equivalency: Bachelors)*  07/2014 – 06/2017