Ganesh Radhakisan Jadhav

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Skills

- Python | SQL | Statistics | Web Scraping | Data Analysis | Data Visualisation | Machine Learning | Deep Learning | Computer Vision | MLops | Cheminformatics | CADD | Genomics
- Rdkit | Deepchem | Pandas | Numpy | Matplotlib | Seaborn | Scikit-learn | PyTorch | Tensorflow
- PowerBI | Excel | MySQL | MongoDB | Git | Docker | AWS | GCP | OOP | CI/CD/CT | Linux
- English | Hindi | Marathi

Experience

Cheminformatics Intern — Solvay — *Vadodara, Gujrat* — **05/2023 - Current**

- Collected and Standardized internally available dataset of experimental properties of chemicals to make one standard dataset for analysis and predictive model building
- Performed Fragmental analysis to gain chemical insights of the datasets and Build QSAR/QSPR using SOTA machine learning techniques

Research Fellow — IIIT — *Hyderabad* — **06/2022 - 05/2023**

- Developed a machine learning model for virtual screening that achieved a 10% accuracy improvement over previous methods.
- Analyzed large chemical datasets to gain insights for developing predictive models, demonstrating strong data analysis skills.
- Created an experimental database to solve the spectra-to-structure problem, enabling the development of a reinforcement learning model with 95% accuracy in the top 3 guesses.

Data Scientist, Intern — iNeuron — *Bengaluru* — **01/2023 - 03/2023**

- Built end-to-end machine learning models and deployed them on AWS, Azure, and GCP using Docker.
- Implemented CI/CD pipelines and MLOps practices, streamlining the development and deployment of machine learning models.

Projects

Financial Fraud Detection

- Developed machine learning solution for detecting financial fraud with detailed EDA, achieving 92% accuracy using the Random Forest algorithm, and deploying it on **AWS** with **Docker** containers while utilizing **CI/CD/CT** pipelines and **MLOps** practices. Technologies such as **Git**, **Scikit-learn**, **Kafka**, and **MongoDB** were leveraged for version control, model building, and data storage and retrieval.

Fluorescent Compound Detection

- Implemented transfer learning with VGG16 architecture to develop a computer vision model for detecting Fluroscent Compounds, achieving 92% accuracy. Leveraged **Streamlit** for reliable deployment and utilized technologies such as **TensorFlow**, **Keras**, **OpenCV**, and **NumPy**.

Biological Activity Prediction

- Developed a machine learning-based web tool using **Streamlit** and **Scikit-learn** libraries to predict biological activity,. Additionally, performed **data mining** from the CHEMBL database for cancer targets.

Solubility Data Analysis

- Performed Chemical Space analysis for solubility dataset using dimensionality reduction techniques.
- Built predictive models to predict solubility data achieving 81% accuracy with Random forest and **PCA**.

Education

Master of Science — Sir Parshurambhau College — *Pune, Maharashtra* — **06/2020 - 06/2022**

- Major in Organic Chemistry

Certifications

Full Stack Data Science Bootcamp — iNeuron

ML for Chemistry and Drug Discovery — IIIT, Hyderabad