Kartik Kirve

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EDUCATION

PUNE INSTITUTE OF COMPUTER TECHNOLOGY | B.E. IN Computer Engineering
CGPA : 7.50/10 | Pune, India | 2021 - 2025

Kendriya Vidyalaya Ganeshkhind | CLASS 12TH
PERCENTAGE : 80.2 % | Aundh, Pune, India | 2019 – 2021

Kendriya Vidyalaya Ganeshkhind | CLASS 10TH
PERCENTAGE : 82.4 % | Aundh, Pune, India | 2019

EXPERIENCE

Project Trainee
High Energy Materials Research Laboratory (HEMRL), DRDO, Ministry of Defence, Govt. of India, Pune
February 2024 - June 2024

- Developed an application for molecular property prediction and analysis, focusing on chemical compounds using SMILES notation and molecular formulas.
- Created a robust dataset from PubChem and implemented a Python tool to compute molecular properties such as symmetry, planarity, electrostatic potential (ESP) value, and energetics.
- Trained machine learning models, including Support Vector Machine (SVM), Logistic Regression, and Decision Trees, to predict the energetics of compounds.
- Designed and developed a user-friendly graphical user interface (GUI) for property analysis, model training/testing, and ML results visualization.

PROJECTS

Weather App Component | TECH STACK: Javascript, Html, CSS, OpenWeatherMap API, Axios
- Developed a real-time weather app using an external API.
- Designed a responsive and user-friendly interface for cross-device accessibility.
- Implemented location-based updates and customizable weather views.

Stock Market Price Predictor | TECH STACK: Streamlit, Keras, yFinance, scikit-learn, Matplotlib
- Built a web app to predict stock prices using past data and a deep learning model.
- Used Yahoo Finance API to get live stock data for analysis.
- Plotted moving averages (MA50, MA100, MA200) and compared actual prices with predicted prices.
- Helped traders make better decisions by showing clear and accurate predictions.

SKILLS

Programming Languages: C++, Python.
Web Developement: HTML, CSS, JavaScript, Reactjs, Nodejs, Flask
Machine Learning Tools: TensorFlow, Keras, scikit-learn, Pandas, Numpy
APIs and Tools: Experience with APIs like yFinance, OpenWeatherMap
Other Skills: Data Structures and algorithms, OOPS, Operating System, Computer Networking

ACHIEVEMENTS

- **Smart India Hackathon 2023**: Our team was selected in the campus round and competed at the national level with our project idea.