

Prakhar Verma

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GitHub Profile
linkedin Profile

Education

Vellore Institute of Technology, University

Bachelor of Technology - Computer Science and Engineering; CGPA: 8.64

Bhopal, India

Nov 2022 - present

Skills Summary

Languages and Libraries: C++, , Python, Java, Typescript, Javascript, HTML5, numpy, pandas, scikit-learn, Matplotlib, CSS3, EJS, Jquery, PYQT5, Tkinter, Visual Basic

Tools and Softwares: Reactjs, Node.js, Express.js, MySQL, .NET 7, Ms-Excel, Jupyter Notebook, MATLAB, QtDesigner, Bootstrap, Visual Studio

Experience

Quantitative Developer Intern— 2Cents Captial

Quantitative Analysis, Software Development

Jan 2025 - Present

- Leading the end-to-end development of Synapse, a proprietary quantitative product designed to optimize trading strategies, enhance data-driven decision-making, and improve operational efficiency across the firm's workflows
- Delivered a high-impact product reveal pitch to investors, effectively communicating technical architecture, product capabilities, strategic business value, and securing stakeholder interest for future growth initiatives.
- Designing, backtesting, and deploying alpha strategies to drive portfolio diversification, improve risk-adjusted returns, and ensure robust performance under dynamic market conditions using advanced quantitative techniques.

Projects

Multimodal Intention Detection through Paralinguistic and Visual Cues— Prof. Ram Kumar

School of Computer Science Engineering, VIT Bhopal

Sep 2024 - Ongoing

- Developed algorithms to detect human intentions by analyzing vocal cues—such as pitch, tone, and speech rate—using tools like Librosa and PyDub, advancing non-verbal communication analysis for more nuanced understanding of user emotions.
- Integrated RNNs and CNNs to merge paralinguistic audio features with visual data, significantly improving the accuracy of real-time emotion and intention detection systems for applications in customer service and virtual assistants.

Finance Craft - Stock Prediction and analysis software— GitHub Link

HTML, CSS, Javascript, Random Forest, SVM Algorithm of Machine learning, SK learn Library

Aug 2023 - Oct 2023

- Built FinanceCraft, a web tool with HTML, CSS, JavaScript, and Node.js for real-time stock analysis and predictions.
- Applied ML algorithms (Random Forest, SVM, Linear Regression) for reliable stock trend forecasting from historical data.
- Leveraged Alpha Vantage and Yahoo Finance APIs for real-time data, enhancing insights with interactive visualizations.

College Event Management And Rating System (CEMARS)— GitHub Link

React, MYSQL, Express, Node, Javascript, Python, Sentiment Analysis

April 2024 - May 2024

- Developed Unstop solution for efficient college event management, fostering competitiveness among clubs.
- Implemented attendance system with MySQL database and admin-side blog posting functionality.
- Stored and displayed user feedback in MySQL for improved event analysis in admin view.
- Conducted sentiment analysis on feedback to generate club rankings, enhancing performance transparency.

Competitions and Workshops

Ideathon, Artificial Intelligence Club, VIT Bhopal — Link:

December 2022

- Designed an IOT Project in such a way that it contain sensors which help in object, color and text detection which helps a visually impacted person in indentification of objects, colors and reading articles

Girlsript Summer Of Code 2023 :

Jun 2023 - Aug 2023

- Developed a responsive web page to display pet news, utilizing HTML, CSS, and JavaScript, while integrating a news API for dynamic content delivery and implementing styled components for enhanced user experience.
- Designed and implemented responsive web components for the UMatteer platform, utilizing HTML, CSS, and JavaScript to create an engaging user interface, including a dynamic services page and a blog section fetching content via API integration.

ISRO Experiential Learning Program 2024, ISRO-NRSC Hyderabad :

September 2024

- Analyzed satellite design and functionality, focusing on communication and Earth observation mechanisms.
- Studied satellite imagery applications in agriculture and disaster management for effective resource monitoring.
- Gained skills in interpreting remote sensing data to support decision-making across various sectors.

Coursework Information

Relevant Courses : Fundamentals of AI and ML, Data Structure and Algorithms with C, Introduction to problem solving, Applied Numerical Methods, Python Programming, Machine Learning , Database Management System(DBMS)

Online Courses : Python With Everybody (Coursera), Python Data Structure (Coursera), The Bits and Bytes of Computer Networking (Coursera)