

Harsh Pratap Singh

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EDUCATION

BML Munjal University

Bachelor of Technology in Computer Science Engineering

Gurugram, Haryana, India

July 2024 – August 2028

- Current CGPA: 8.06
- Coursework: Data Structures & Algorithms, Object-Oriented Programming, Probability & Statistics, Web Development

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, SQL (PostgreSQL)

Data Science & ML: NumPy, Pandas, Scikit-learn, Time Series Analysis, Machine Learning

Frameworks & Tools: Streamlit, Node.js, Express.js, Git, MongoDB, yfinance

Web Technologies: HTML5, CSS3, JavaScript (ES6+)

Core Concepts: Data Structures, Algorithms, Data Preprocessing, Exploratory Data Analysis

PROJECTS

NutriGuard - AI Nutritional Analysis App | Python, Streamlit, ML APIs

2025

- Built a nutritional analysis app with Streamlit providing real-time dietary insights and calorie tracking.
- Implemented ML algorithms to analyze food composition and automate nutritional value calculations.
- Ranked as a top-performing project for technical implementation at BML Munjal University.
- Developed a UI for food log management and personalized dietary guidance.

Stock Price Forecasting System | Python, Streamlit, yfinance, Prophet

2026

- Developed a predictive modeling application using Prophet to handle 50+ concurrent tickers with historical data.
- Integrated yfinance API to automate data ingestion, increasing trend analysis efficiency by 25%.
- Implemented Prophet algorithms on closing prices to generate 30-day forecasts with 90%+ backtesting accuracy.
- Visualized seasonality and trend components using Plotly, improving data interpretability for non-technical users.
- Designed a UI for dynamic stock selection and custom prediction horizons, reducing report generation time by 40%.

EXPERIENCE

Alumni Association - BML Munjal University

Gurugram, Haryana, India

Technical Intern

June 2025 – July 2025

- Digitized and organized a database of 5000+ alumni records to improve data accessibility.
- Automated outreach and record-keeping workflows, reducing manual processing time by 40%.
- Designed data management solutions to support alumni engagement initiatives.

ACM BMU Student Chapter

BML Munjal University

Extended Executive Committee Member

August 2024 – June 2025

- Organized 10+ technical workshops and hackathons for over 300 student participants.
- Managed event planning and coordinated with industry speakers for technical knowledge-sharing sessions.
- Mentored students in competitive programming and web development fundamentals.

ACHIEVEMENTS & LEADERSHIP

Top Project Recognition: NutriGuard selected as a featured project at BMU for technical innovation.

ACM Leadership: Led logistics and technical coordination for events with 300+ attendees.

OPEN SOURCE

- Maintain ML and data analysis repositories on GitHub with documented workflows and reproducible environments.