SPARSH BATRA

sparsh-b4tra sparshb4tra sbatra.xyz

Email: me@sbatra.xyz

Mobile: +91 99969 42006

OBJECTIVE

I am intrigued towards the realm of technology and thereby my core technical prowess in Python, SQL, Tableau, Excel, Data Science, and Machine Learning has been consolidated over the span of 3 years and thereby I channelise my technical expertise for the said position.

EDUCATION

Bhagwan Parshuram Institute of Technology, Guru Gobind Singh Indraprastha University
Bachelor's degree in Information Technology (B.Tech) ; CGPA: 8.539 **Aug 2022 - Jul 2026 (Expected)**

Daffodil Public School, Narela, Delhi
Central Board of Secondary Education (Science) ; Percentage: 69.4 **Apr 2020 - May 2021**

Delhi Public School, Sonipat, Haryana
Central Board of Secondary Education ; Percentage: 86.4 **Apr 2018 - May 2019**

SKILLS SUMMARY

- **Languages:** Python, C++ (DSA), JavaScript, SQL, HTML, CSS
- **Framework & Libraries:** React, Bootstrap, Pandas, Numpy, Pytorch, Matplotlib, Scikit-learn
- **Tools:** Jupyter Notebooks, Excel, Tableau/PowerBI, Figma, MySQL, Adobe Creative Suite, MATLAB, SciLab
- **Soft Skills:** Leadership, People Management, Effective Communication, Team Player

EXPERIENCE

Hughes Systique Corporation (HSC), Gurgaon, HR
Software Development Intern **June 2024 - July 2024**

- Collaborated on building a robust real-time inventory management system leveraging **Python**, **MySQL**, **Java**, and **Git** to efficiently track and manage stock across multiple locations.
- Actively contributed to **User Interface design** resulting in an intuitive and user-friendly software experience for users.
- Gained hands-on experience in **troubleshooting** and **debugging code**.

PROJECTS

STUDENT PERFORMANCE PREDICTION
(Pandas, Numpy, Scikit-learn, Matplotlib) **November 2024 - January 2025**

- Achieved a **96% accuracy rate** in forecasting student academic performance by developing and deploying a machine learning model.
- Improved data quality by **33%** through handling missing values and encoding categorical variables.
- Conducted experiments with both classification and regression algorithms to identify the most suitable approach.
- Identified and comprehended key factors influencing academic performance through detailed analysis.

REAL TIME INVENTORY MANAGEMENT SYSTEM
(PHP, JavaScript, HTML, CSS, MySQL, XAMPP) **August 2024**

- Developed **PHP/MySQL** system managing **1,000+ items**, reducing stockouts by **30%** with optimized filtering.
- Implemented **responsive** UI using **HTML/CSS/JavaScript**, improving user efficiency by **25%** with easy item modification
- Designed **E-R schema** and **DFDs**, optimizing database queries for sub-second response times
- Deployed on **XAMPP**, achieving **99.9% uptime** and supporting concurrent user access across different user accounts.

NETFLIX DASHBOARD
(SQL, Tableau) **July 2024 - August 2024**

- **Analyzed 80,000+** rows using **SQL** and **Tableau** to uncover streaming viewer preferences and trends.
- Created **interactive dashboards** visualizing ratings, genres, and viewership patterns across platforms.
- Delivered **actionable insights** for improved content recommendations and user engagement.
- Developed **scalable solution** for handling extensive data, enabling data-driven decision making.

KRISHIRAKSHAK **September 2023**
SMART INDIA HACKATHON 2023

- Developed a cross-platform **Flutter app** using **InceptionV3 deep learning** for accurate plant disease detection and treatment recommendations.
- Achieved **70% faster diagnosis** and **30% improved treatment accuracy** by integrating expert verification and real-time Firebase backend.
- Empowered farmers with **instant disease detection,** reducing **crop loss risks** and improving **agricultural decision-making efficiency** with an **easy-to-use app** and **multi-language interface**.

ACCOMPLISHMENTS & CERTIFICATIONS

SIMPLILEARN Introduction to Large Language Models **June 2025**
Completed the SkillUp Large Language Models course powered by Google Cloud, gaining in-depth expertise in advanced NLP, model architectures, responsible AI practices, and practical applications across industries.

Stanford University Supervised Machine Learning **May 2025**
Earned a certificate in supervised machine learning from Stanford University & DeepLearning.AI, focusing on building and training regression and classification models in Python using NumPy and scikit-learn, with practical experience in predictive modeling and feature engineering.

WELLS FARGO Software Engineering Job Simulation **February 2025**
Understood the requirements for developing a financial portfolio management system and identified key data for tracking. Designed an entity relationship diagram (ERD) to visually represent the data structure and implemented it using IntelliJ. Successfully published the project on GitHub, ensuring accessibility and version control.

BOSTON CONSULTING GROUP Data Science Job Simulation **January 2025**
Completed a customer churn analysis simulation for XYZ Analytics, using Python, Pandas, and NumPy for data analysis and visualization. Engineered a random forest model with 85% accuracy and delivered an executive summary with actionable insights for decision-making.

GOOGLE CYBERSECURITY **January 2025**
FOUNDATIONS OF CYBERSECURITY

SMART INDIA HACKATHON **September 2024**
Cleared College Rounds for SIH, built a Job Portal with an AI Resume Builder

GOOGLE DATA ANALYTICS **August 2024**
PROCESS DATA FROM DIRTY TO CLEAN

NAVOMESH 4TH EDITION **March - April 2023**
Lead Designer of Navonmesh 4th Edition, the Annual Technical Magazine for the Computer Science & Engineering Department