

Sourav Sharma

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🌐 Portfolio Website

Education

Indian Institute of Science Education and Research Bhopal, BS in Engineering Science Aug 2024 – July 2028

- CPI: 7.05/10
- **Coursework:** Data Structure, Algorithm, Numerical Methods, Optimization Techniques, Discrete Maths, Linear Algebra, Calculus

Experience

ML Intern, GeoAI4Cities Lab, IISER Bhopal Dec 2024 – Jan 2025

- Worked on Point Cloud Annotation and developed a ML model for Point Cloud Segmentation.
- Utilized CloudCompare and Python scripts for 3D data processing and analysis.

Projects

Trading Engine Server 2025 | [Project Link](#)

- Developed a modular trading engine server in C# (.NET Core) with real-time order processing, asynchronous services, and robust logging.
- Applied object-oriented design, dependency injection, and configuration management to ensure code maintainability and scalability.

EquityMetrics 2025 | [Project Link](#)

- Built a Python-based portfolio analyzer computing alpha/beta, volatility, and risk-adjusted returns, with interactive visualization of drawdowns and rolling metrics.
- Tools Used: Python, Yfinance

Stock Regression Modeling 2025 | [Project Link](#)

- Developed OLS, Lasso, Ridge, and Elastic Net regression models to predict stock returns.
- Evaluated model performance using RSE, MSE, and RMSE metrics, achieving least RMSE of 4.1656 on OLS.

Stock Price prediction using ML 2025 | [Project Link](#)

- Developed and optimized ML models (Random Forest, KNN) to forecast Bank of America's stock prices using historical data and macroeconomic indicators, achieving 92% accuracy (R^2).
- Engineered features, optimized hyperparameters, and evaluated performance using RMSE, MAE

Technologies

Languages: C++ , C, C#, Python

Libraries: Pandas, NumPy, Matplotlib, Searborn, Plotly

Technologies: Git & Github, Google Colab, Excel, Jupyter, VS Code, Sublime Text

Ratings & Academic Achievements

- **Newbie** on Codeforces, Max Rating: **977**, Username: **Sneaky_Typer** Codeforces | [Profile Link](#)
- **1 star** on CodeChef, Max Rating: **1172**, Username: **scorzion** CodeChef | [Profile Link](#)
- **Grey** on AtCoder, Max Rating: **64**, Username: **scorzion** AtCoder | [Profile Link](#)

Key Courses Taken

- **Options 101** by Akuna Capital University 2025
- **Summer of Quant** by Quant Club | IIT KGP 2025

Postions of Responsibility

- **AI & ML Tech Lead**, Google Developer Group on Campus, IISER Bhopal Oct 2024 - Present
- **Student Volunteer**, Placement Cell, IISER Bhopal Mar 2025 - Present