

# Sourav Sharma

✉ souravs24@iiserb.ac.in | ✉ sourav31vforce@gmail.com | 📞 +91 95084 95778 | 🐙 Github | 🔗 LinkedIn  
🌐 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

**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, Python

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Plotly

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

## Ratings & Academic Achievements

- **Newbie** on Codeforces, Max Rating: **789**, Username: **Sneaky\_Typer** Codeforces | [Profile Link](#)  
- **1 star** on CodeChef, Max Rating: **965**, Username: **scorzion** CodeChef | [Profile Link](#)  
- **Grey** on AtCoder, Max Rating: **22**, 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  
- **Volunteer**, Placement Cell, IISER Bhopal Mar 2025 - Present