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

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

Ratings & Academic Achievements

- **Newbie** on Codeforces, Max Rating: **815**, Username: **Sneaky_Typer**	Codeforces | **Profile Link**
- **1 star** on CodeChef, Max Rating: **1030**, Username: **scorzion**	CodeChef | **Profile Link**
- **Grey** on AtCoder, Max Rating: **30**, 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