

# PRONAY BISWAS

West Bengal – 700124

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## Summary:

Highly motivated, self-starting programmer seeking to launch a career in Data Engineering / Machine Learning.

## Projects:

**1. Reflector:** An E2E financial analytics tool for all listed Indian stocks.

### Features:

- 4500+ equity, indices, F&O ●100+ technical and fundamental analysis
- Option greeks and implied volatility(iv) analysis based on Black-Scholes [model](#)
- Client wise open interest and volume analysis.

### Data Source:

- National Stock Exchange of India for live and EOD [data](#).

### Front-end:

- Interactive Dashboard with dash, plotly and bootstrap.

### Back-end:

- ORC and Parquet for achieving and training are handled by Apache Arrow.
- [ETL](#) jobs are handled by Apache Spark and Pandas.
- Data manipulation and analysis by Pandas and Scipy.
- Postgresql to serve front-end's query without ORM (longest query<700ms on local).

**2. Paperclip:** A django based CRUD application for The Village Cafe & Restaurant.

## Skills:

### Theory:

- Data Structure and Algorithms ●Database Management Systems ●Operating Systems
- Computer Networking ●Object Oriented Programming ●Probability ●Statistics.

### Programming Language:

- C ●Python ●SQL ●MATLAB.

### Database:

- Postgresql ●Hadoop Ecosystem.

### Machine Learning / Deep Learning:

- Scikit-Learn ●Apache Mxnet ●Apache Spark.

### Others:

- Cloud Computing ●UNIX Ecosystem ●Git Ecosystem ●Docker ●Django
- Apache Superset ●Dash & Plotly ●FOSS Fan (self-hosted).

## Education:

- Secondary – WBBSE – 2015 – 87%
- Higher Secondary – WBCHSE – 2017 – 62%

## Online Certification:

- [Fundamentals of Scalable Data Science by IBM](#).
- [Neural Networks and Deep Learning by DeepLearning.AI](#).
- Machine Learning by Stanford University (running).