Subhadip Ghosh

Data Analyst

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FROFESSIONAL SUMMARY

Detail-focused Data Analyst with a strong background in interpreting and analysing data to drive business solutions. Experienced in uncovering trends, identifying key insights, and presenting findings in a clear and impactful manner. Adept at collaborating with cross-functional teams to support strategic decision-making.

EDUCATION

Seacom Engineering College	**BTech in Electronics and Communication Engineering** | CGPA: 6.6	August 2022 – July 2025
Contai Polytechnic	**Diploma in Electronics and Telecommunication Engineering** | CGPA:7.8	August 2018 – July 2021
Chandur High School	**Secondary Education (10th)** | Percentage: 76	June 2018

TECHNICAL SKILLS

Languages: Python, SQL, HTML, CSS

Frameworks: NumPy, Pandas, Matplotlib, Seaborn, Streamlit, Plotly, Django

Others: Git, GitHub, Power BI, Excel

CERTIFICATIONS

Data Structure and Algorithms with Python from Coding Ninjas.

Database Management System with SQL from Coding Ninjas.

Operating System management from Coding Ninjas.

PROJECTS

Project 1 | Stock analysis   Jul 2024 – Sep 2024

- Developed an interactive financial data visualization tool using Streamlit for real-time stock market analysis.
- Integrated Yahoo Finance API via yfinance to fetch live and historical stock data without requiring an API key.
- Built responsive and interactive charts using Plotly to enhance data insight and user engagement.
- Implemented data processing pipelines with Pandas and NumPy to analyze and display financial metrics.
- Designed an intuitive single-page UI with customizable input controls for symbol, time period, and chart types.
- Configured Streamlit in headless mode with custom port settings for seamless web-based deployment.
- Ensured cross-platform compatibility and minimal setup overhead for users and developers alike.
- Used modular code architecture with app.py and config files for scalable development.

Project 2 | Weather Data Analysis   Oct 2024 – Feb 2025

- Built a modular weather data analysis application using Streamlit to visualize and analyze temperature patterns.
- Designed a clean, interactive UI with sidebar configurations and file upload support for multiple formats (CSV, JSON, TXT, LOG).
- Implemented a data processing pipeline to clean, standardize, and validate weather sensor data using Pandas and NumPy.
- Developed a core analytics module that classifies days as hot, cold, or normal based on configurable thresholds.
- Created interactive data visualizations using Plotly, including time series graphs and statistical distribution charts.
- Enabled session state management to cache and reuse processed data for better performance and user experience.
- Incorporated error handling and validation throughout data ingestion and analysis to improve stability.
- Managed configuration through .streamlit/config.toml with modern packaging using uv.

Project 3 | Data Analyzer   Mar 2025 – Jun 2025

- Built a web-based Exploratory Data Analysis (EDA) application using Streamlit, enabling users to analyze datasets without writing code.
- Developed CSV file upload capability and integrated built-in datasets (Sales, Iris, Housing) for immediate analysis.
- Designed an intuitive single-page UI with sidebar navigation, responsive layout, and custom theming using .streamlit/config.toml.
- Implemented data preprocessing modules to handle missing values, detect data types, and summarize datasets using Pandas and NumPy.
- Created dynamic visualization utilities (histograms, boxplots, scatter plots, correlation heatmaps) using Matplotlib and Seaborn.
- Automated statistical analysis features including mean, median, standard deviation, and correlation metrics via SciPy.