

# Sourav Mandal *Financial Analyst*

📍 Vill.:Rajbagan, P.O.: Chakdaha, Dist.: Nadia, State: West Bengal, Pin: 741222 ✉ mandal.srv1998@gmail.com

☎ +91 8618241725 📅 27/11/1998 🇮🇳 Indian in sourav-mandal-390064210 🔄 Sourav9827 📁 Portfolio



## 👤 Profile

Highly motivated Financial Analyst with expertise in data analysis, financial modeling, and risk assessment. Proficient in Excel, SQL, and Python. Strong track record of delivering accurate financial insights under tight deadlines. Effective communicator and team player. Committed to driving financial success for the organization.

## 🧠 Skills

**Teaching** (*Mathematics and Computer Science*)

**Computer Science** (*Python, SQL, Machine Learning and Data Science*)

**Python** (*Pandas, Numpy, Matplotlib, Seaborn, Flask, Plotly, Dash, Sklearn etc.*)

**Data Analytics** (*MySQL, Tableau, PowerBI, Snowflake, Pentaho etc.*)

**Databases** (*SQL and Mongo DB.*)

**MS-Office** (*Advanced Excel, Power point, Word, Access.*)

**Team Leader** (*I lead a group of interns under me, monitor their work and as a team we solve various task in Highway Delite.*)

**Machine Learning** (*Linear and Logistic Regression, SVM, Xgboost, Random Forest, Naive Bayes etc.*)

**Deep learning** (*ANN, CNN and RNN*)

**NLP** (*NLTK, Machine Learning, RNN, LSTM, GRU, Self-Attention model, Transforms, Chatbot etc.*)

## 📄 Certificates

**Data Analytics Consulting Virtual Internship(KPMG)**  
(*Data Quality Assessment Data Insights Data Insights and Presentation May 8th, 2021*)

**Data@ANZ Program** (*Exploratory Data Analysis Predictive Analytics May 13th, 2021*)

**Full Stack Data Science** (*ineuron.ai*)

**Python for Data Science and Machine Learning Bootcamp**  
(*udemy*)

**Introduction to Machine Learning** (*Coursera*)

**Data Science foundations** (*Great Learning*)

## 🎓 Education

**Full Stack Data Science program, ineuron.ai** 🌐

03/2022 – 03/2023

Data Science and Analytics, Machine Learning, Deep Learning and Big data basics.

**Diploma in Information Technology,**  
*Nehru Yuva Computer Shiksha Kendra*

02/2021 – 02/2022 | Chakdaha, India

Typing, MS Office, Advanced Excel, HTML, CSS and Basic C Programming.

**Bachelor in Education (B.Ed), W.B.U.T.T.E.P.A**

09/2021 – 09/2023 | Santipur, India

On-site School Teaching Internship, Seminars, Micro-teaching, Presentations, Models, Learning Designs etc.

## 📁 Professional Experience

**Subject Matter Expert, Vertocity**

03/2023 – present | Remote, India

Training students on Data Science and Analytics  
*SQL, Advanced Excel, Python, Statistics, Machine Learning, Power BI, Time series analysis, Deep Learning and NLP.*

**Data Analytics intern, ineuron.ai** 🌐

05/2023 – 07/2023 | Remote, India

- **Project Title:** NBA Data Analytics Project
- **Tools:** Python, SQL and Power BI
- **Final Output:** A presentation of the findings, including visualizations and recommendations.
- **Roles and Responsibilities:**
  - Collected (Webscraping) and cleaned NBA player data.
  - Developed and executed data analysis queries.
  - Created visualizations of the data.
  - Presented the findings and documentations to stakeholders.

**Data Science Intern, ineuron.ai** 🌐

12/2022 – 02/2023 | Remote, India

- **Project Title:** News Article sorting
- **Objective:** To classify news articles into predefined categories like Sports, Technology, Entertainment, etc. using deep learning methods.
- **Tools:** Python, Google's BERT model, Azure App Services, Flask, HTML/CSS, Pandas, NumPy, Scikit-learn, TensorFlow, and Keras.
- **Final Output:** Achieved 97.96% accuracy on test set, deployed model on Azure App Services using Flask web app for predictions
- **Roles & responsibilities:**
  - Pre-processing the data to make it suitable for the model
  - Fine-tuning the BERT model for News Category Classification
  - Developing the Flask application for the model
  - Deploying the model on Azure app services
  - Testing and debugging the application
  - Documentation of the project

**Teacher(Mathematics and CS), Self Employed**

2017 – present | Chakdaha, India

- Freelancing Teacher of Mathematics and Computer Science
- Creating Presentations and Learning designs for everyday classes.
- Good understanding of Concepts and Application in real life situations.
- Noticeable improvements in Student's Academic results.

**Associate, Highway Delite**

02/2022 – 11/2022 | Remote, India

- Building database for highway related data.
- Train and monitor the work of new interns.
- Research and create documents for tourism data
- Verify and upload the highway information in the backend of the website

**Data Analyst Intern, The Sparks Foundation**

08/2021 – 09/2021 | Remote, India

- Prediction using Supervised ML
- Prediction using Unsupervised ML
- Exploratory Data Analysis - Retail
- Exploratory Data Analysis - Terrorism
- Prediction using Decision Tree Algorithm

## M.Sc Mathematics(Pure), University Of Kalyani

08/2019 – 08/2021 | Kalyani, India

- Specialization in Complex Analysis and Differential Geometry.
- Advanced Research Project on Wave Equations.

## B.Sc (Hons.) Mathematics, University Of Kalyani

07/2016 – 07/2019 | Kalyani, India



### Courses

#### Associate Financial Analysis, invact.com

06/2023 – present

#### Prompt Engineering, deeplearning.ai

04/2023 – 04/2023

#### Introduction to R Software, NPTEL

09/2020 – 11/2022

#### Learning Analytics Tools, NPTEL

07/2021 – 10/2021

#### Probability for Computer Science, NPTEL

07/2021 – 10/2021

#### Introduction to Machine Learning, NPTEL

07/2021 – 09/2021

#### Data Analytics with Python, NPTEL

01/2021 – 04/2021

#### Data Science for Engineers, NPTEL

01/2021 – 03/2021

#### Programming, Data Structures And Algorithms Using Python, NPTEL

09/2020 – 11/2020

#### Introduction to R Software, NPTEL

09/2020 – 11/2020

#### Python for Data Science, NPTEL

09/2020 – 10/2020



### Languages

English • Hindi • Bengali



### Declaration

I hereby declare that all the information furnished above is correct to the best of my belief. I am responsible for the authenticity of all the information.

Sourav Mandal

Chakdaha, 29/07/2023



### Projects

#### Earthquake Analysis, Created Earthquake Analysis Dashboard, predicted risk & intensity, improved disaster response.

- **Objective:** Analyze earthquake data and create a predictive model for earthquake risk and intensity.
- **Tools:** SparkR, Power BI.
- **Methodology:** Created an ETL pipeline using SparkR to ingest and clean data. Built a machine learning model to predict earthquake risk and intensity. Visualized the results using Power BI.
- **Results:** Provided insights into the earthquake patterns, hotspots, and trends. Predicted the countries at risk for earthquakes and their intensity levels.
- **Impact:** Improved disaster preparedness, risk mitigation, and emergency response strategies for the affected regions.

#### HR Attrition Dashboard, Excel-based HR dashboard improved employee retention and engagement.

- **Objective:** Create a dashboard to analyze employee attrition and provide insights for HR decisions.
- **Tools:** Excel, Power Query, DAX.
- **Methodology:** Extracted and transformed employee data from multiple sources, created calculated columns and measures, and designed interactive visuals.
- **Results:** Provided insights into attrition rates, reasons, and patterns, leading to data-driven decisions.
- **Impact:** Improved employee retention, engagement, and satisfaction for the company.

#### Adidas Sales Dashboard, Created a sales dashboard using Excel, Power Query, and DAX to analyze sales trends, improve forecasting, and marketing strategies for Adidas.

- **Objective:** Create a sales dashboard for Adidas to visualize and analyze sales data.
- **Tools:** Excel, Power Query, DAX.
- **Methodology:** Extracted and transformed data from multiple sources, created calculated columns and measures, and designed interactive visuals.
- **Results:** Provided insights into sales trends, product performance, and customer behavior, leading to data-driven decisions.
- **Impact:** Improved sales forecasting, inventory management, and marketing strategies for Adidas.

#### Customer Details Dashboard, Excel-based customer dashboard provided insights and improved business performance.

- **Objective:** Create a dashboard to analyze customer data and provide insights for business decisions.
- **Tools:** Excel, Power Query, DAX.
- **Methodology:** Extracted and transformed customer data from multiple sources, created calculated columns and measures, and designed interactive visuals.
- **Results:** Provided insights into customer demographics, behaviors, and preferences, leading to data-driven decisions.
- **Impact:** Improved customer retention, acquisition, and satisfaction for the business.

#### Case Study SQL - Danny's Diner,

##### Analyse Danny's Restaurant's Database

- **Objective:** Analyzing Danny's Diner's data using SQL to help improve customer experience and make informed business decisions.
- **Tools:** SQL, Google Sheets (datasets provided)
- **Methodology:** Write SQL queries to answer specific questions about customer spending, visiting patterns, menu preferences, loyalty program, and points calculation. Create basic data tables for easy data inspection without SQL joins.
- **Results:** Insights generated on customer spending, visiting patterns, and menu preferences. Evaluation of loyalty program effectiveness. Calculation of points earned by customers.
- **Impact:** Enable Danny to understand customer behavior, enhance personalized experiences, expand the loyalty program, and optimize menu offerings based on customer preferences.